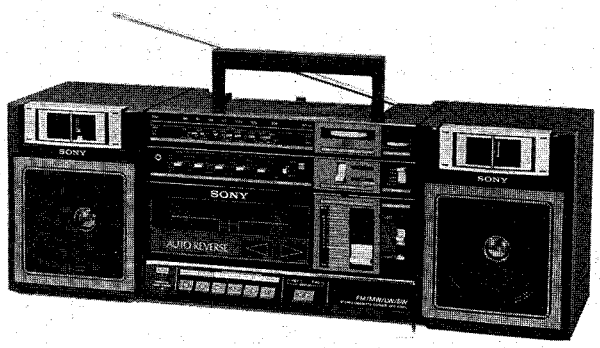
CFS-4000L

SERVICE MANUAL

AEP Model
UK Model



SPECIFICATIONS

Tape Transport Mechanism Type	MF-5000-78

Radio section

Frequency range
- FM 87.6–107 MHz
- MW 530–1,605 kHz (566-187m)
- LW150-255kHz (2,000–1,176 m)
- SW 5.95–18 MHz (50–16.7 m)

Antennas
- FM/SW: Telescopic antenna
- MW/LW: Built-in ferrite bar antenna

Tape recorder section and general

Recording system
- 4-track 2-channel stereo

Fast winding time
- Approx. 2 min. 5 sec. with Sony cassette HF-60

Frequency response
- 80–8,000Hz

Graphic equalizer
- Boost/cut range: ±10 dB
- Center frequencies: 100 Hz, 400 Hz, 1 kHz, 4 kHz, 10 kHz

Speakers
- Two-way: Woofer 12 cm(4¾ inches) dia. x2
- Tweeter 2 cm ($^{13}/_{16}$ inches)dia. x2
- Impedance 6 ohms
- Nominal power handling capacity 5 W
- Maximum power handling capacity 7 W

Power output
- 5 W + 5 W (at 10% harmonic distortion) in DC operation

Inputs
- Two external microphone input jacks (minijack)
- sensitivity 0.775 mV for low impedance microphone

Outputs
- Headphones jack (stereo minijack)
- for 8–300-ohm impedance headphones
- Speaker terminals
- for 6-ohm impedance speaker

Power requirements
- The model for the United Kingdom: 240 V AC, 50 Hz
- The model for European countries: 220 V AC, 50 Hz
- 9 V DC, six IEC designation R20 (size D) batteries

Power consumption
- 25 W in AC operation

Battery life
- Approx. 10 hours of continuous recording from the built-in radio using Sony SUM-1 (NS) New Super batteries

Dimensions
- Approx. 582 x 201 x 181.5 mm (w/h/d) ($22^{7}/_{8} \times 7^{7}/_{8} \times 7^{1}/_{8}$ inches) incl. projecting parts and controls, not incl. handle

Weight
- Approx. 5 kg (11 lb) incl. batteries

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

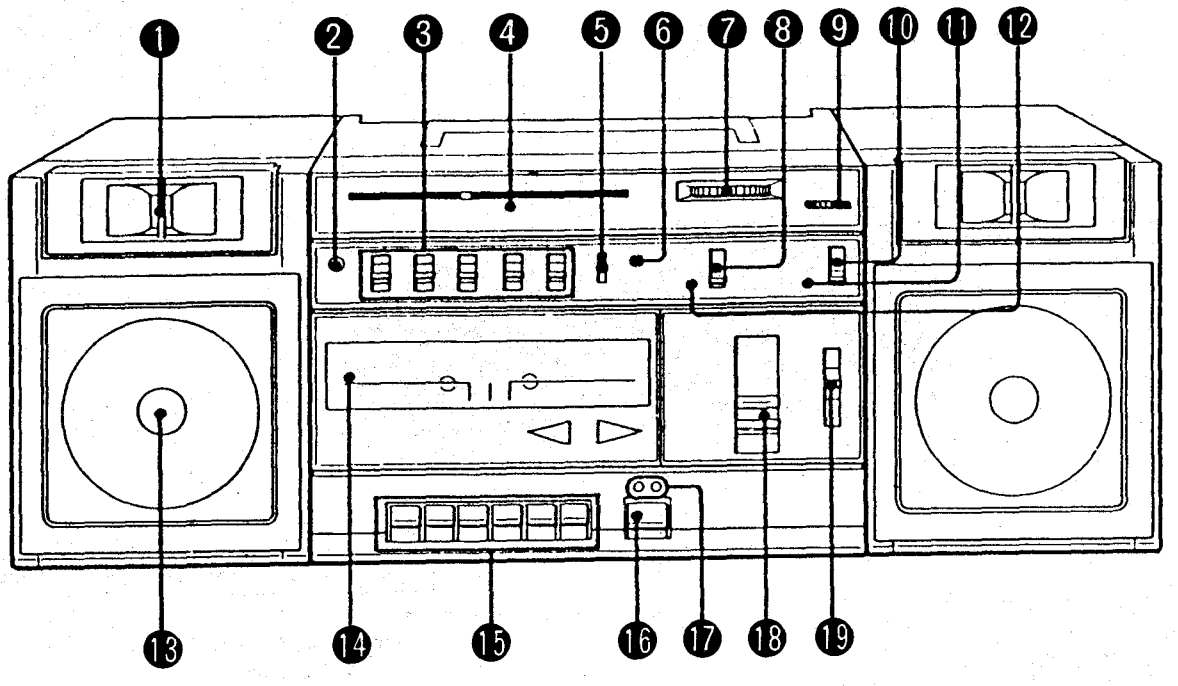
FM/MW/LW/SW STEREO CASSETTE-CORDER

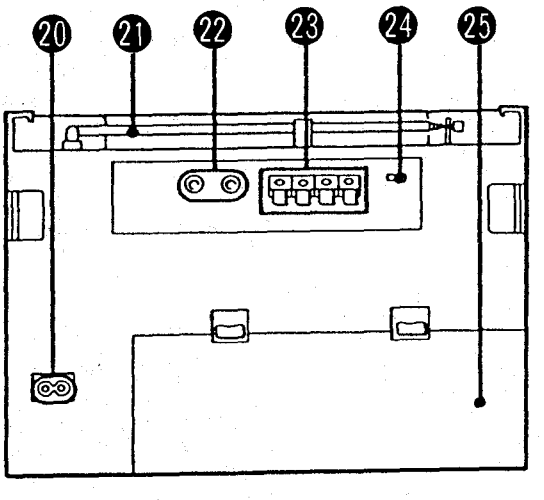
SONY®

TC

SECTION 1
OUTLINE

LOCATION AND FUNCTION OF CONTROLS





FUNCTION OF CONTROLS

❶ **Tweeter**

❷ **PHONES jack** (stereo minijack)

❸ **GRAPHIC EQUALIZER controls**
Slide downwards or upwards to equalize the reproduced sound. When the equalizer is not used, set the controls to 0 (center position).

❹ **Dial scale**

❺ **TAPE SELECT switch**
Select the type of the tape to be played back.
NORM: To play back TYPE I (normal) tape
CrO_2/METAL: To play back TYPE II (CrO_2) or TYPE IV (metal) tape

❻ **REC MUTE (record muting) button**
Press this button to eliminate unwanted programs and provide a blank space during recording.

❼ **TUNING knob**
Turn the knob to select the frequency of the desired station.

❽ **FUNCTION selector**
RADIO: For listening to or recording radio program.
TAPE/RADIO OFF: For playing back the tape, or for recording from the external microphones.
Be sure to set the FUNCTION selector to TAPE/RADIO OFF when the unit is not in use. (This position is **power off** for the radio when the tape operation buttons are released.)

❾ **FINE TUNING knob**
Turn to precisely tune in the SW frequency.

❿ **BAND select switch**
Select the desired band, FM, MW, LW or SW.

⓫ **FM ST (stereo) indicator**
Lights when an FM stereo program of sufficient signal strength is tuned in.

⓬ **OPR/BATT (operation/battery) indicator**
Lights up to show operation.
The indicator also shows the battery condition.

⓭ **Woofer**

⓮ **Cassette holder**

⓯ **Tape operation mode buttons**
■ **STOP/EJECT**
● **RECORD**
▶ **PLAY**
◀◀
▶▶
II PAUSE: Depress to stop the tape for a moment during playback. To restart, press it again.

⓰ **◀I▶ DIRECTION (tape transport direction) button**
Press to listen to the other side of the cassette during playback.

⓱ **DIRECTION indicators (REV and FWD)**
Show the direction of the tape transport.

⓲ **VOLUME control**
Slide up for more volume.

⓳ **BALANCE control**
Slide to adjust right and left speaker volume for optimum stereo effect.

⓴ **AC IN socket**

㉑ **Telescopic antenna**
Used for FM and SW reception.

㉒ **EXT MIC (external microphone input) jacks**
Minijacks for recording with external microphones. Set the FUNCTION selector to TAPE/RADIO OFF.

㉓ **SPEAKER terminals**
Connect the speaker system using the speaker cords.

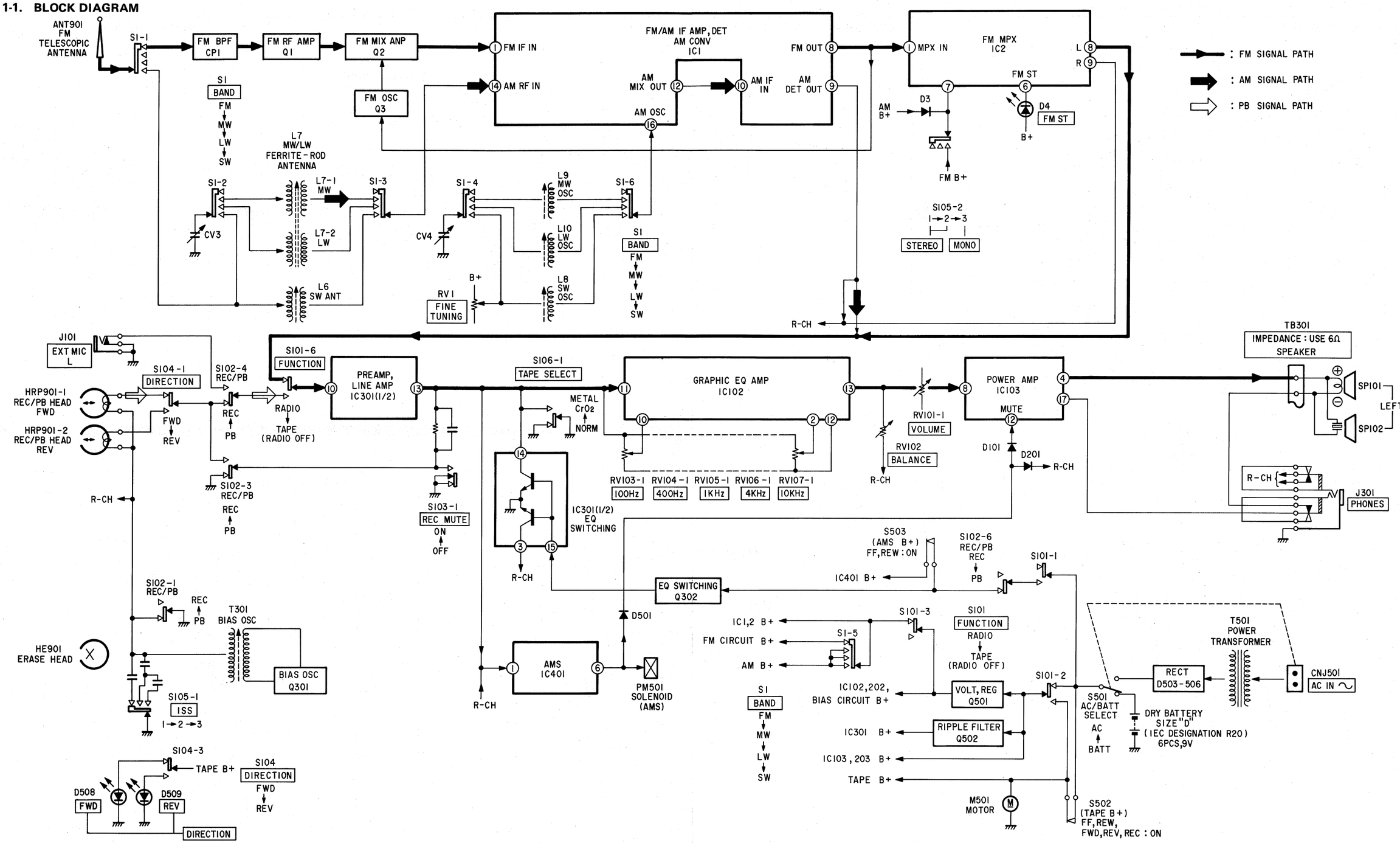
㉔ **ISS (Interference Suppress Switch)/FM MODE selector**
ISS: White recording MW/LW program, if beat (whistling noise) is heard, set the ISS selector to 1, 2 or 3, depending on which best reduces the noise.
FM MODE: Used for FM reception. Normally set the selector to STEREO. Set to MONO when it is hard to hear the broadcast due to noise.

㉕ **Battery compartment**

CFS-4000L

SECTION 2
BLOCK DIAGRAM

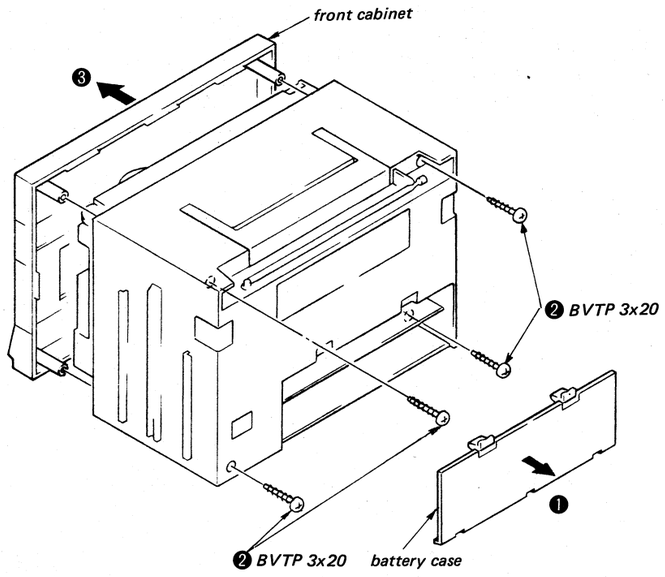
1-1. BLOCK DIAGRAM



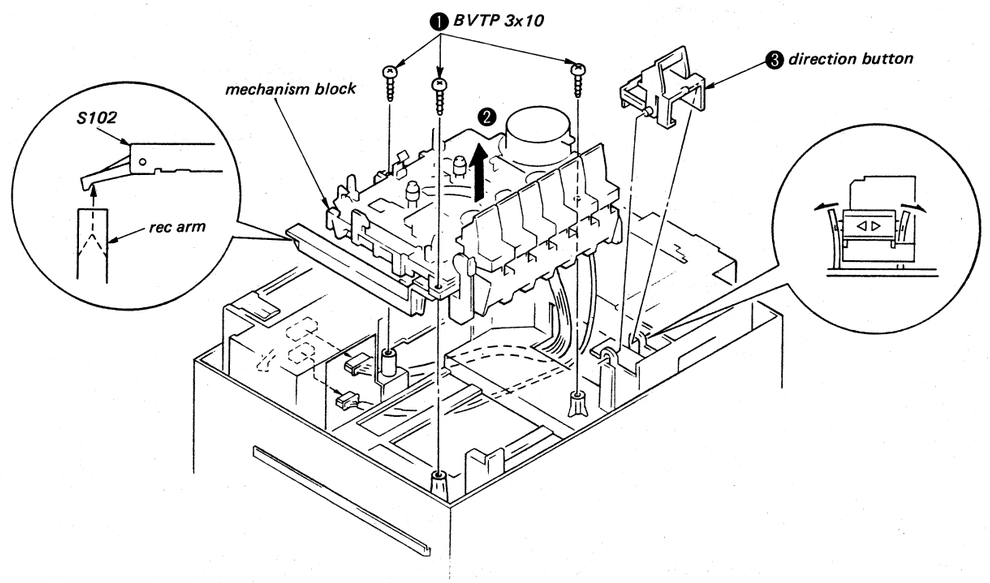
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

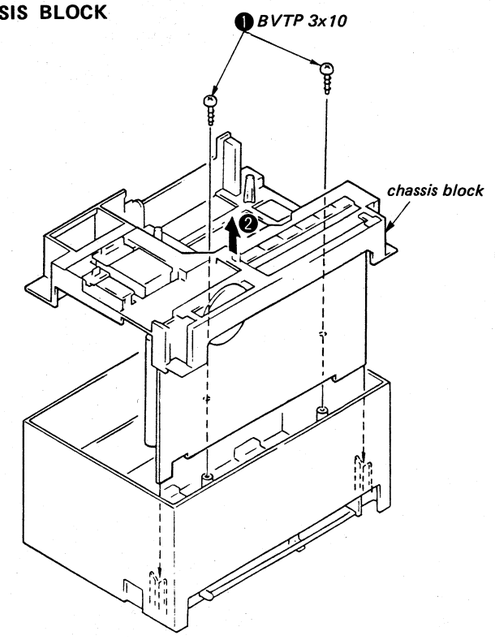
FRONT CABINET



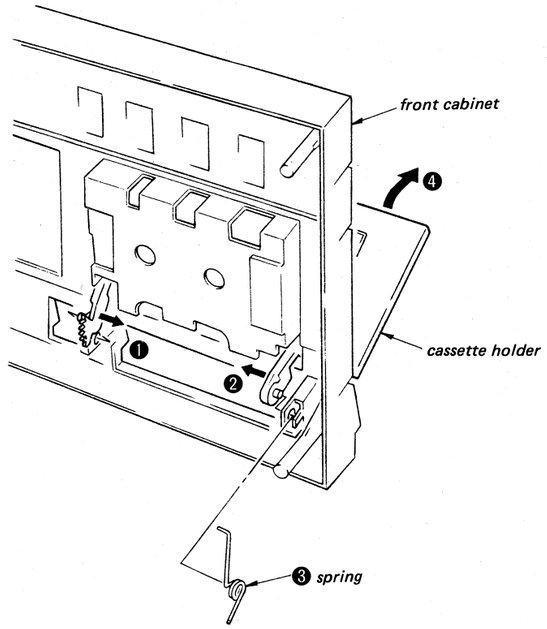
MECHANISM BLOCK / DIRECTION BUTTON



CHASSIS BLOCK

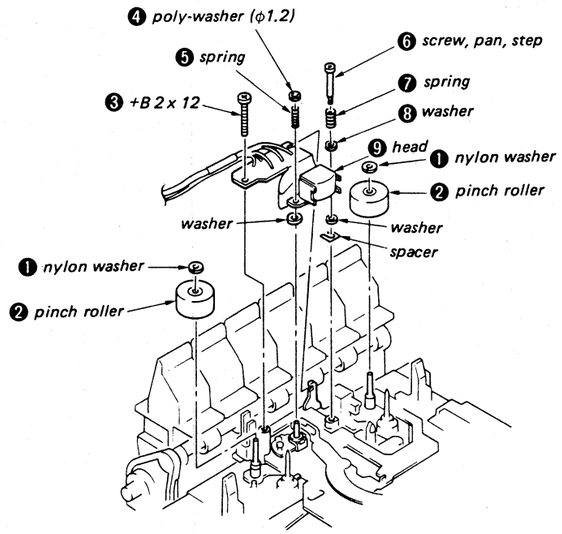


CASSETTE HOLDER

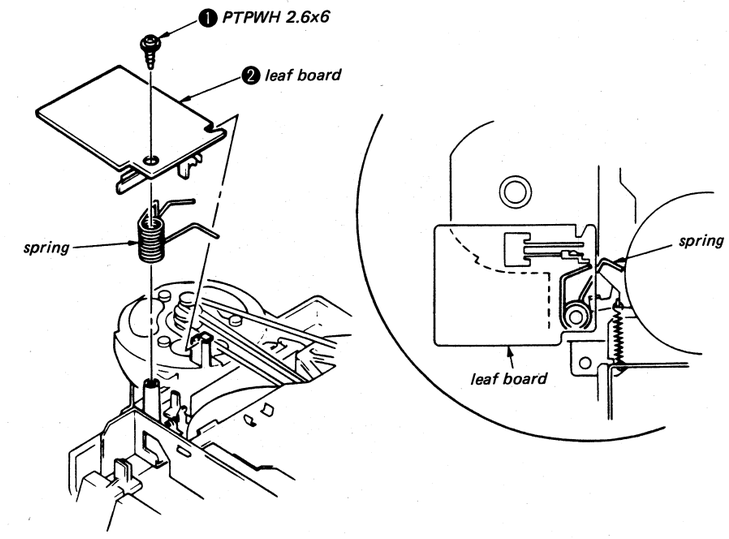


PINCH ROLLER/HEAD

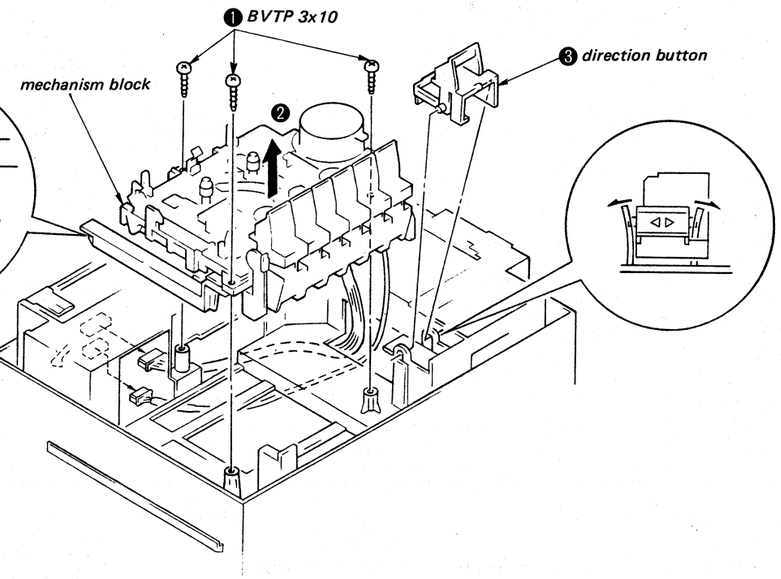
❶ , ❷ pinch roller
❸ – ❾ head



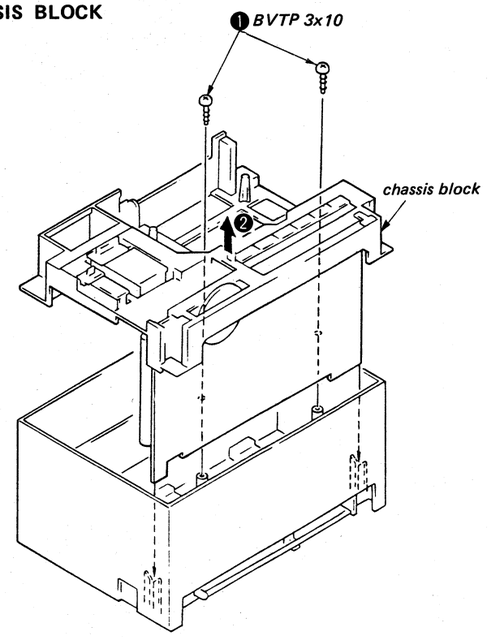
LEAF SWITCH BOARD



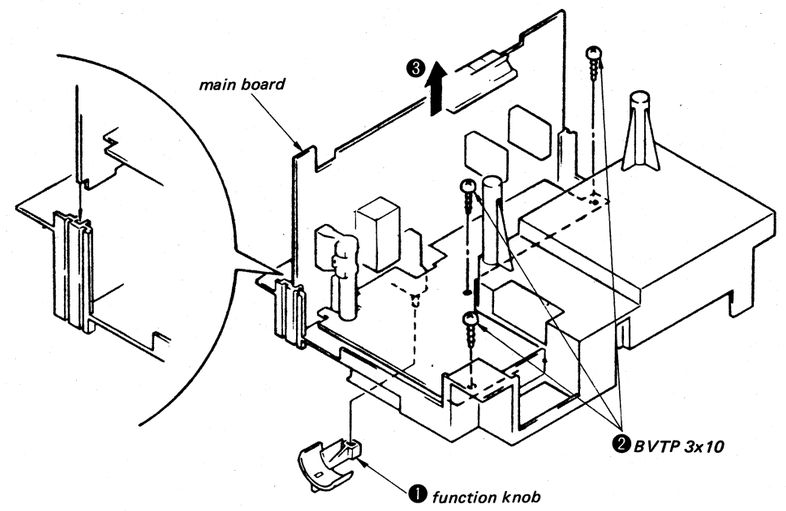
DIRECTION BUTTON

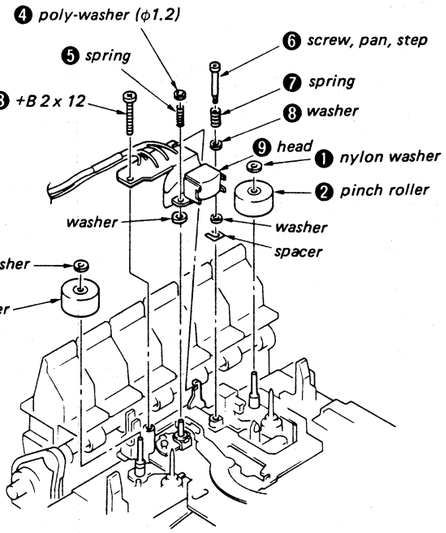


CHASSIS BLOCK

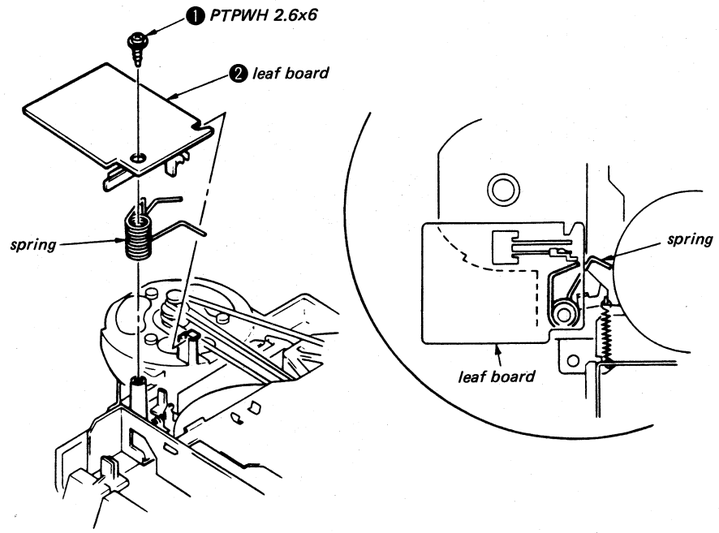


MAIN BOARD

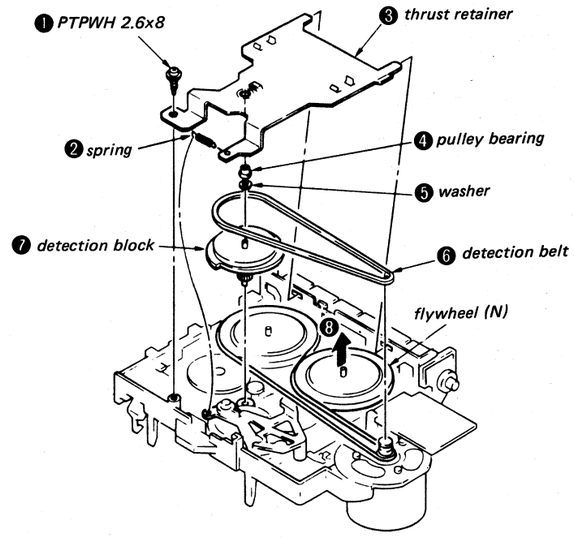




LEAF SWITCH BOARD



FLYWHEEL

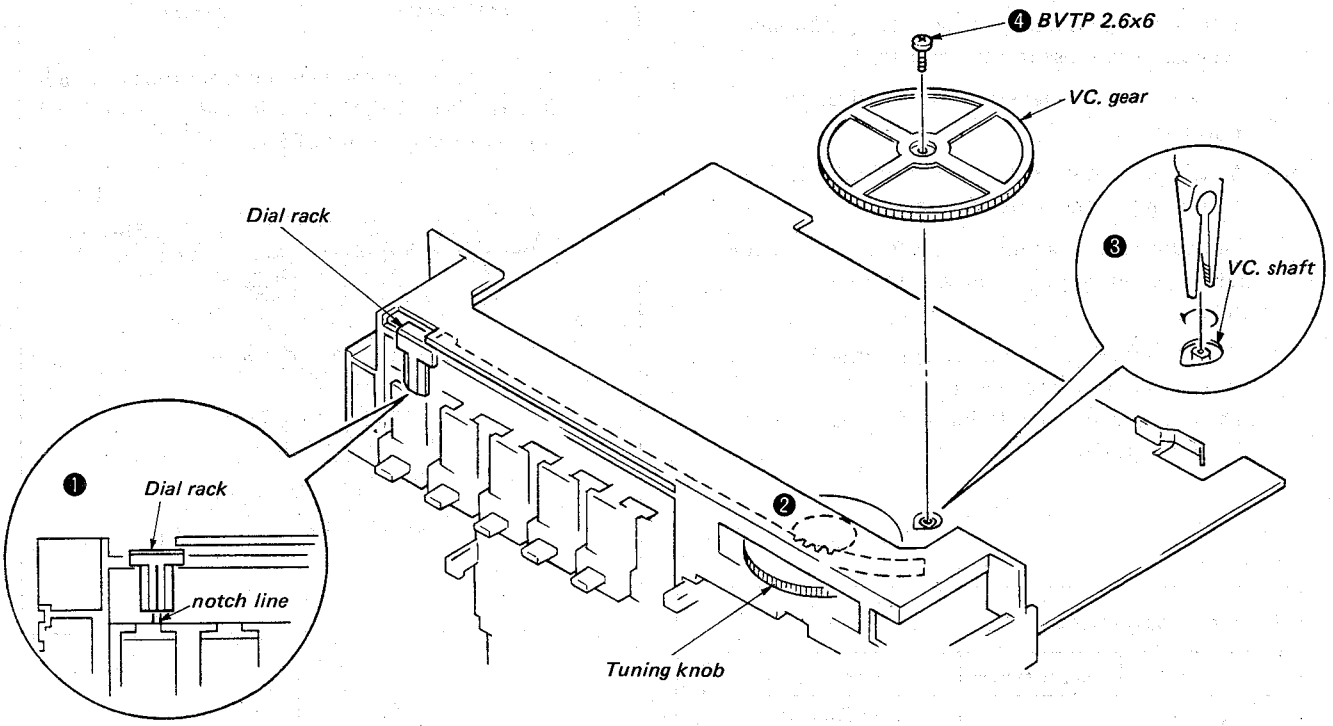


❶ Set the center of dial rack to the notch line.

❷ Mesh the teeth of tuning knob with the teeth of dial rack.

❸ Turn VC. shaft fully counterclockwise with a pair of pliers.

❹ Secure VC. gear with a screw (BVTP 2.6x6), and apply a suitable locking compound.



SECTION 4
ADJUSTMENTS

MECHANICAL ADJUSTMENTS

PRECAUTION

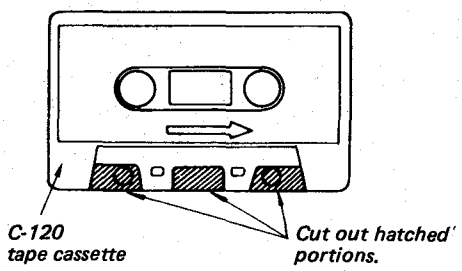
1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

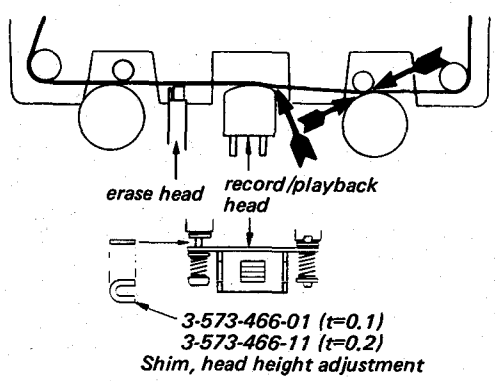
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
6. The adjustments should be performed in the order given in this service manual.
   The adjustments should be performed for both L-CH and R-CH.

Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



2. In record mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions of arrow.

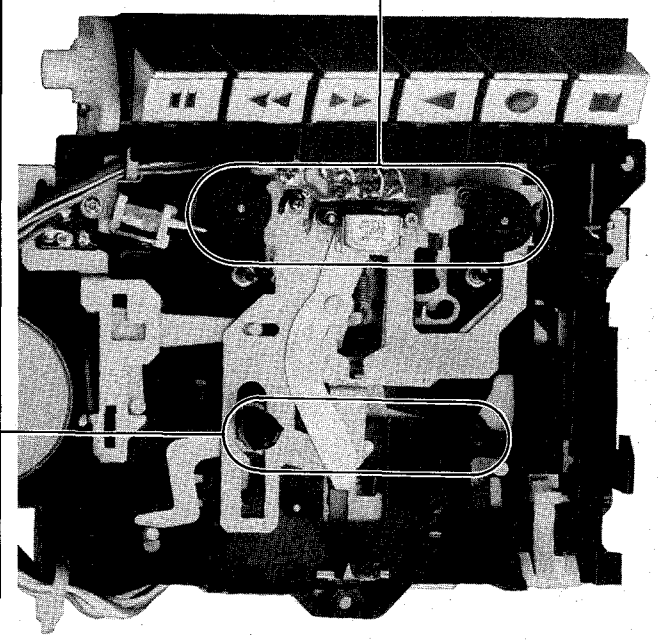


Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	28 – 55 g•cm (0.39 – 0.76 oz•inch)
FWD Back Tension		2.5 – 5.5 g•cm (0.04 – 0.07 oz•inch)
REV	CQ-102RC	28 – 55 g•cm (0.39 – 0.76 oz•inch)
REV Back Tension		2.5 – 5.5 g•cm (0.04 – 0.07 zo•inch)
FF	CQ-201B	100 – 180 g•cm (1.38 – 2.48 oz•inch)
REW		95 – 145 g•cm (1.33 – 2.01 oz•inch)

Tape Tension Measurement

Mode	Tension meter	Meter reading
FWD	CQ-403A	more than 120 g (more than 1.67 oz•inch)
REV	CQ-403R	



ELECTRICAL ADJUSTMENTS

CASSETTE SECTION

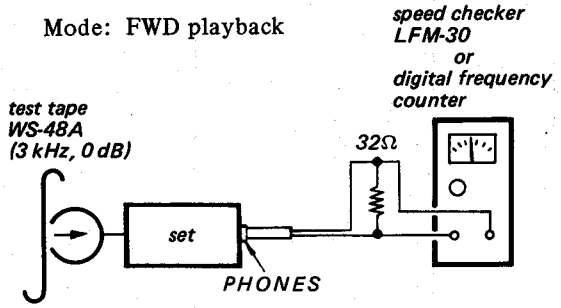
Tape Speed Adjustment

Setting:

VOLUME control: mechanical mid

Procedure:

Mode: FWD playback

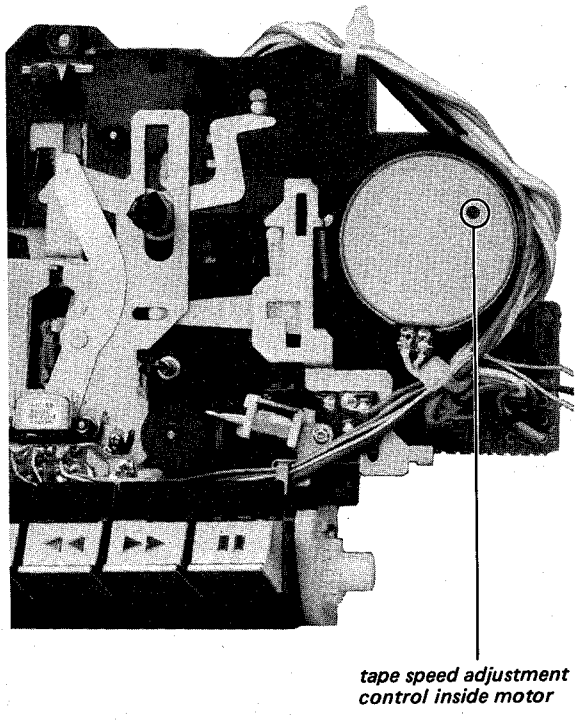


Specification:

Speed checker	Digital frequency counter
−1.3 to +1.2%	2,960 to 3,035 Hz

Frequency difference between the beginning and the end of the tape should be within 1% (30 Hz).
Also in REV playback mode, confirm to obtain the above specification.

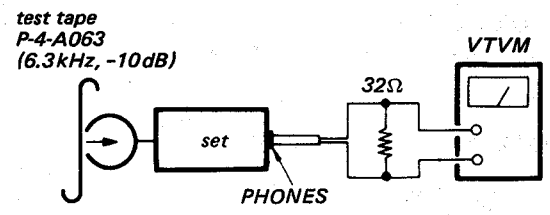
Adjustment Location:



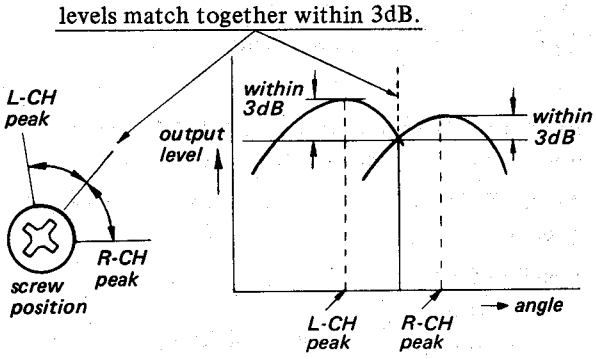
Record/playback Head Azimuth Adjustment

Procedure:

1. Mode: FWD playback

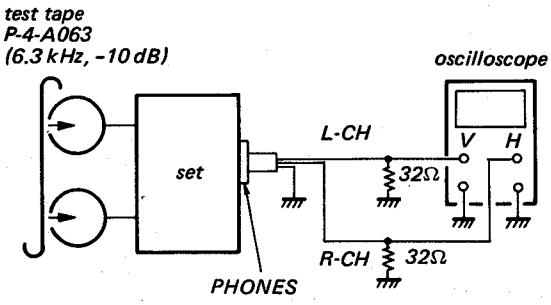


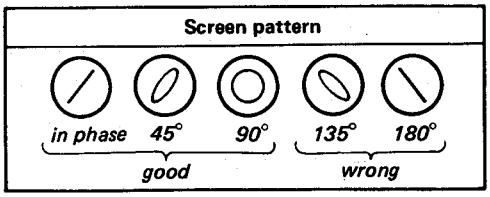
2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 3dB.



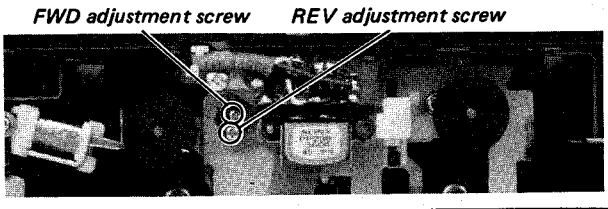
Also in REV playback mode, perform the above adjustment. After the adjustment, comfirm to obtain the specification in FWD playback mode again.

3. Phase Check
Mode: FWD playback and REV playback





Adjustment Location:



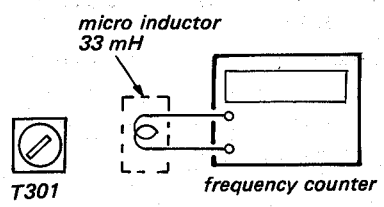
Record Bias OSC Frequency Adjustment

Setting:

GEQ control: center
FUNCTION switch: TAPE

Procedure:

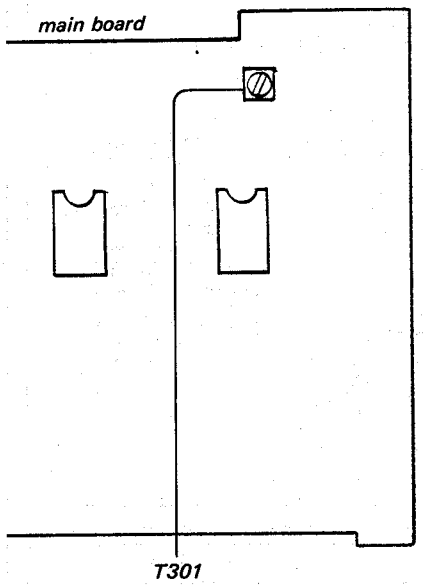
1. Mode: record (without signal)



2. Bring the micro inductor connected to a frequency counter close to T301.
3. Adjust T301 for the specified value on the frequency counter.

Specification:

ISS 1. . . . . .47.5–49 kHz
ISS 2. . . . . .44 – 46 kHz
ISS 3. . . . . .41 – 42.5 kHz

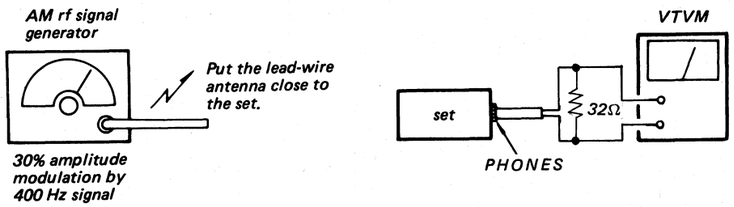


RADIO SECTION

• AM SECTION

LW

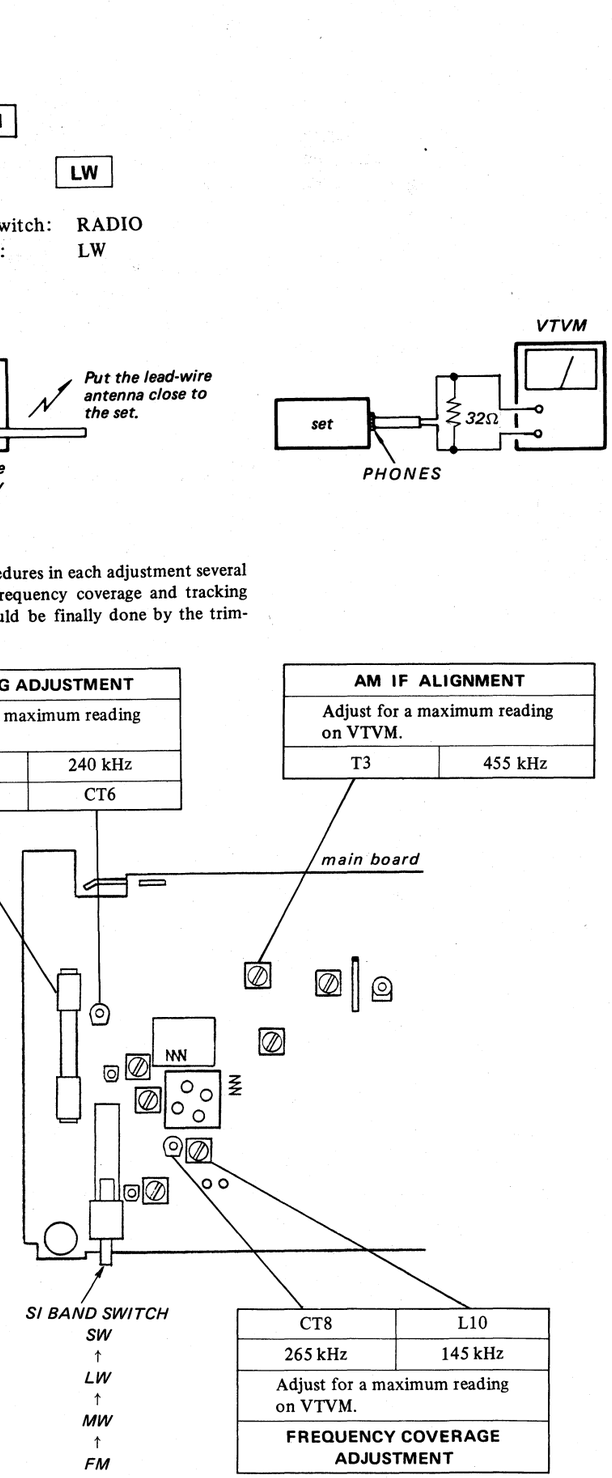
FUNCTION switch: RADIO
BAND switch: LW



• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
160 kHz	240 kHz
L7-2	CT6

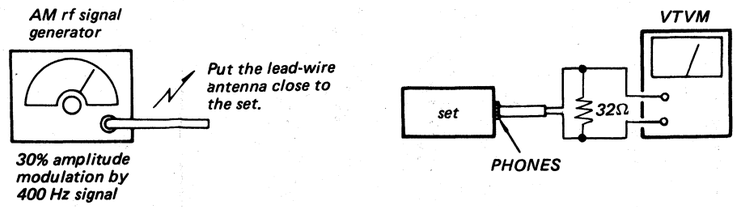
AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
T3	455 kHz



CT8	L10
265 kHz	145 kHz
Adjust for a maximum reading on VTVM.	
FREQUENCY COVERAGE ADJUSTMENT	

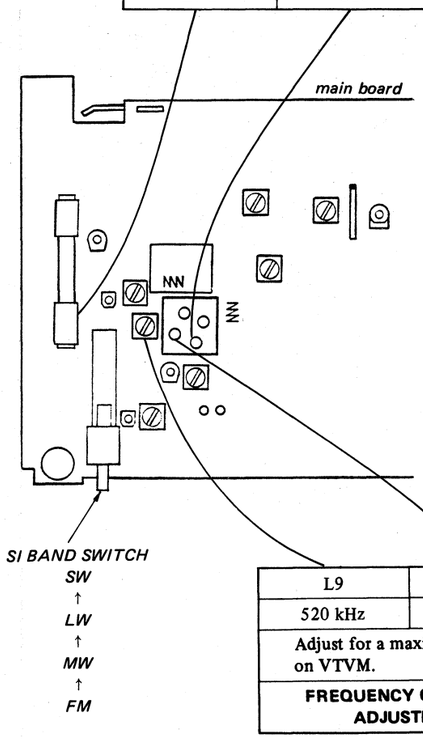
MW

FUNCTION switch: RADIO
BAND switch: MW



• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

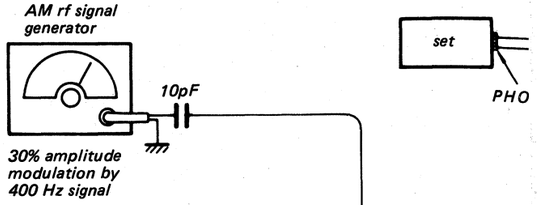
TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
600 kHz	1,400 kHz
L7-1	CT3



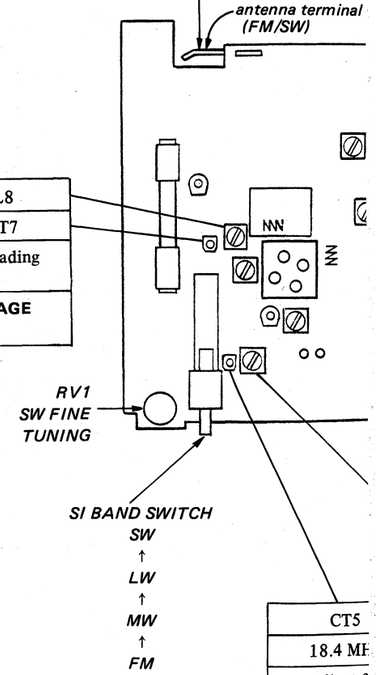
L9	CT4
520 kHz	1,660 kHz
Adjust for a maximum reading on VTVM.	
FREQUENCY COVERAGE ADJUSTMENT	

SW

FUNCTION switch: RADIO
BAND switch: SW

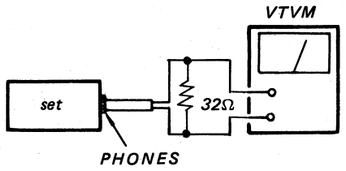


• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

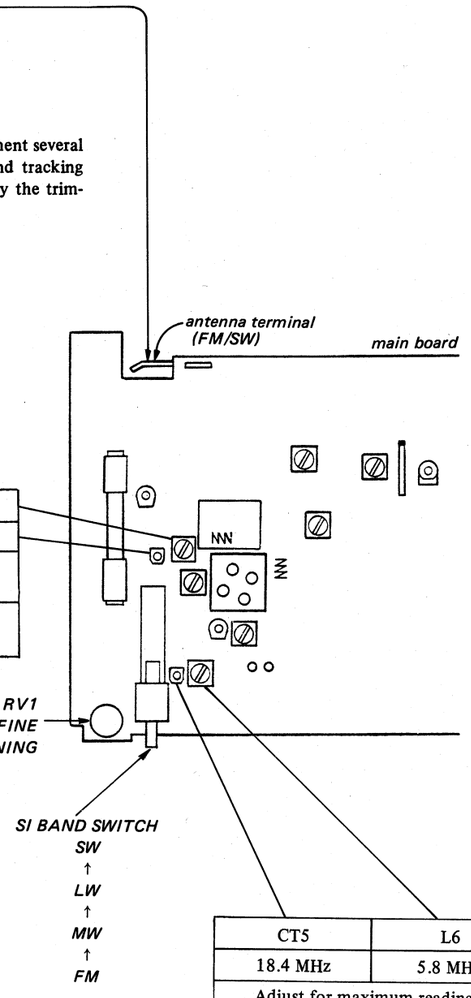


5.8 MHz	L8
18.4 MHz	CT7
Adjust for a maximum reading on VTVM.	
FREQUENCY COVERAGE ADJUSTMENT	

CT5
18.4 MH
Adjust f on VTV
TRACK



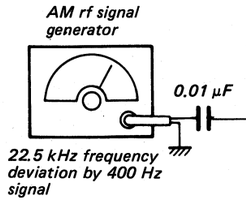
…ment several
…d tracking
…y the trim-

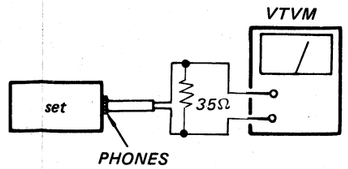


CT5	L6
18.4 MHz	5.8 MHz
Adjust for maximum reading on VTVM.	
TRACKING ADJUSTMENT	

• FM SECTION

FUNCTION switch: RADIO
BAND switch: FM

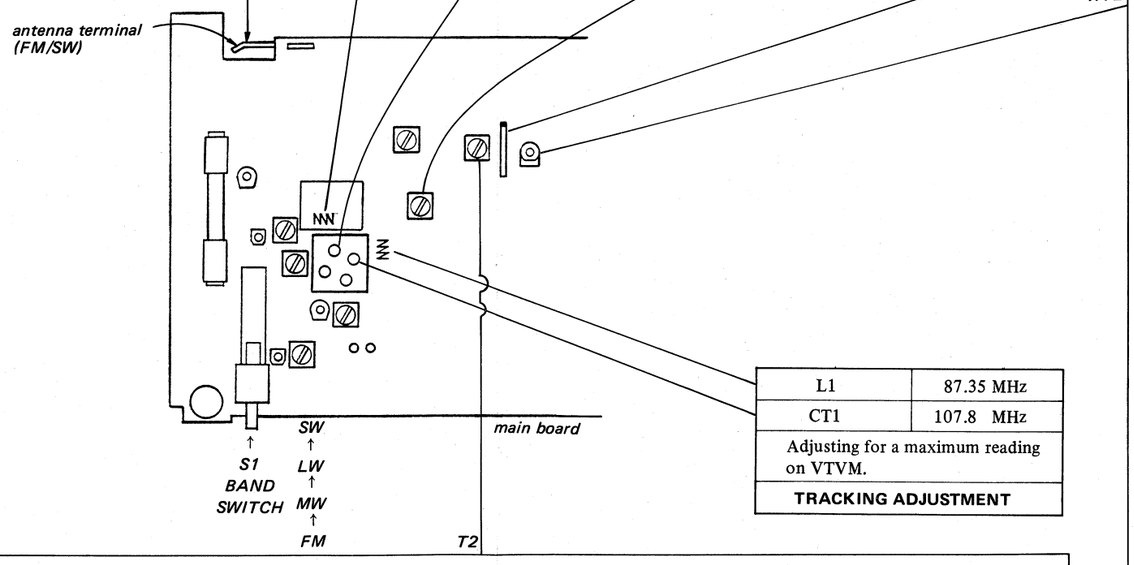




FREQUENCY COVERAGE ADJUSTMENT	
Adjusting for a maximum reading on VTVM.	
87.35 MHz	107.8 MHz
L3	CT2

FM IF ALIGNMENT 1	
Adjust for 0 V reading on VTVM.	
10.7 MHz	
T1	T2

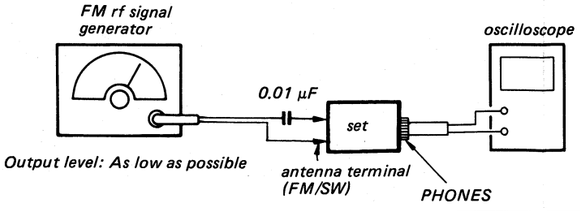
• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.



L1	87.35 MHz
CT1	107.8 MHz
Adjusting for a maximum reading on VTVM.	
TRACKING ADJUSTMENT	

FM IF ALIGNMENT 2

Procedure:

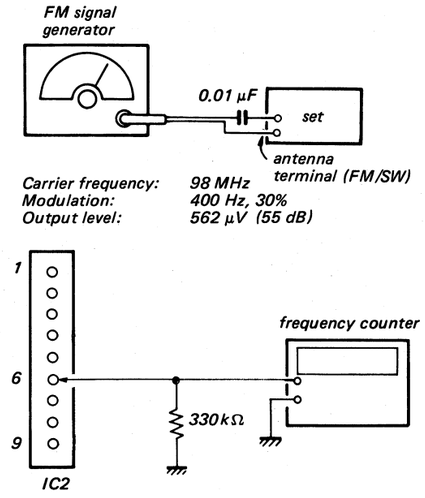


1. Turn T2 fully clock wise.
2. Make sure that sinewave appears three times when changing rf signal-generator frequency gradually.
3. Set rf signal-generator frequency for second sinewave, and precisely adjust rf signal-generator frequency for maximum reading on oscilloscope.
4. Adjust T2 for maximum reading and minimum noise on oscilloscope.

VCO Adjustment

A) Regular Method

Procedure:

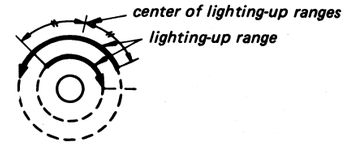


1. Tune the set to 98 MHz.
2. Adjust RV2 for 38 kHz ± 0.2 kHz on the counter.

B) Simple Method

Procedure:

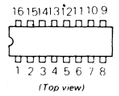
1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV2 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RV2 at the center of the lighting-up range of both turns as shown below.



SECTION 5
DIAGRAMS

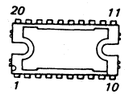
● Semiconductor Lead Layouts

TA7668BP
LA 1260S
LA 3600

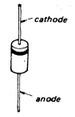


2SC2786-K
2SD1020-F

LA4500



IS2687S-1
IS2139C
ISS133
RD6.8FB2
20E2H



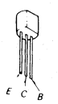
LA 2010
TA7343AP

ISS133

2SC2724-C
2SC2724-D

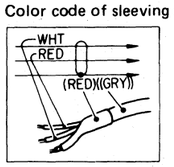
TLR124

2SC 945-P



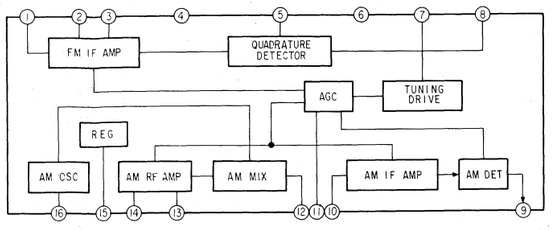
Note:

- Color code of sleeving over the end of the jacket.

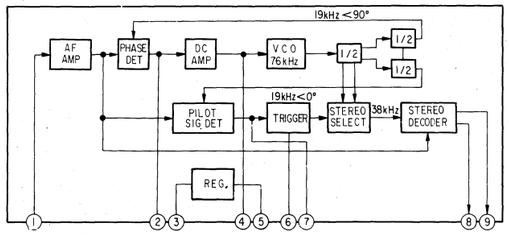


- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- [ ]→ : indicates side identified with part number.

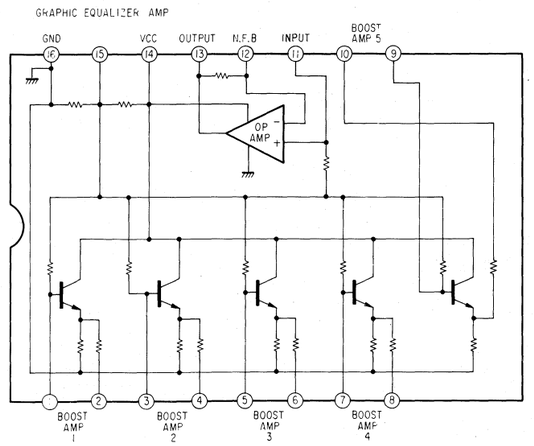
(LA1260S)



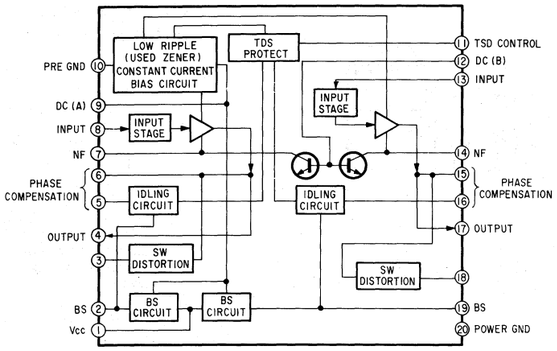
(TA7343AP)



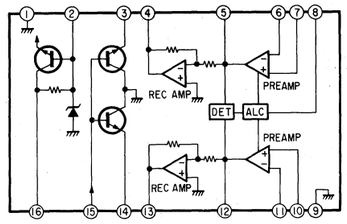
(LA3600)



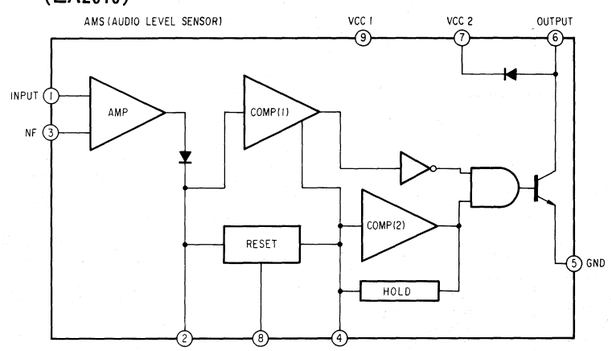
(LA4500)



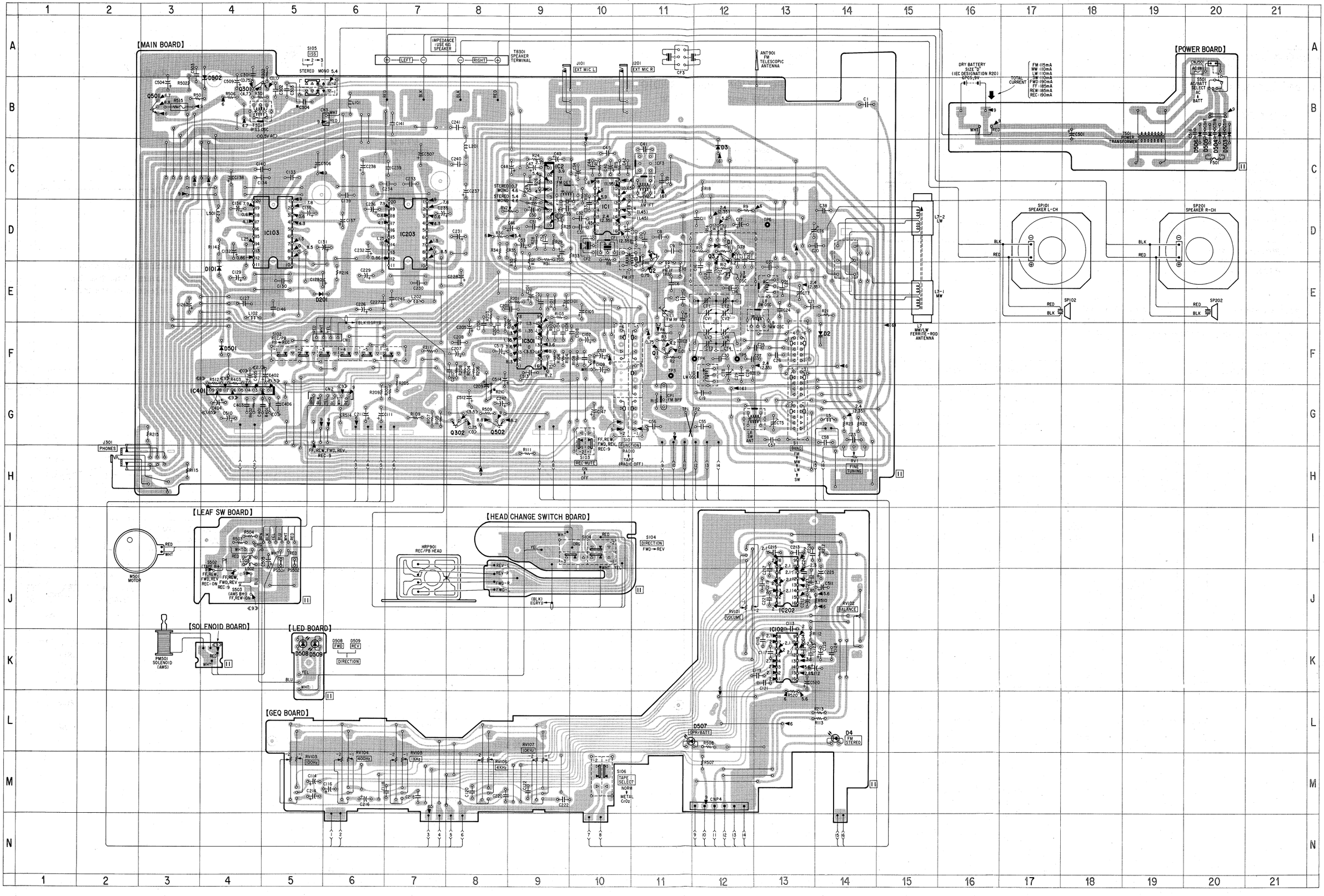
(TA7668BP)



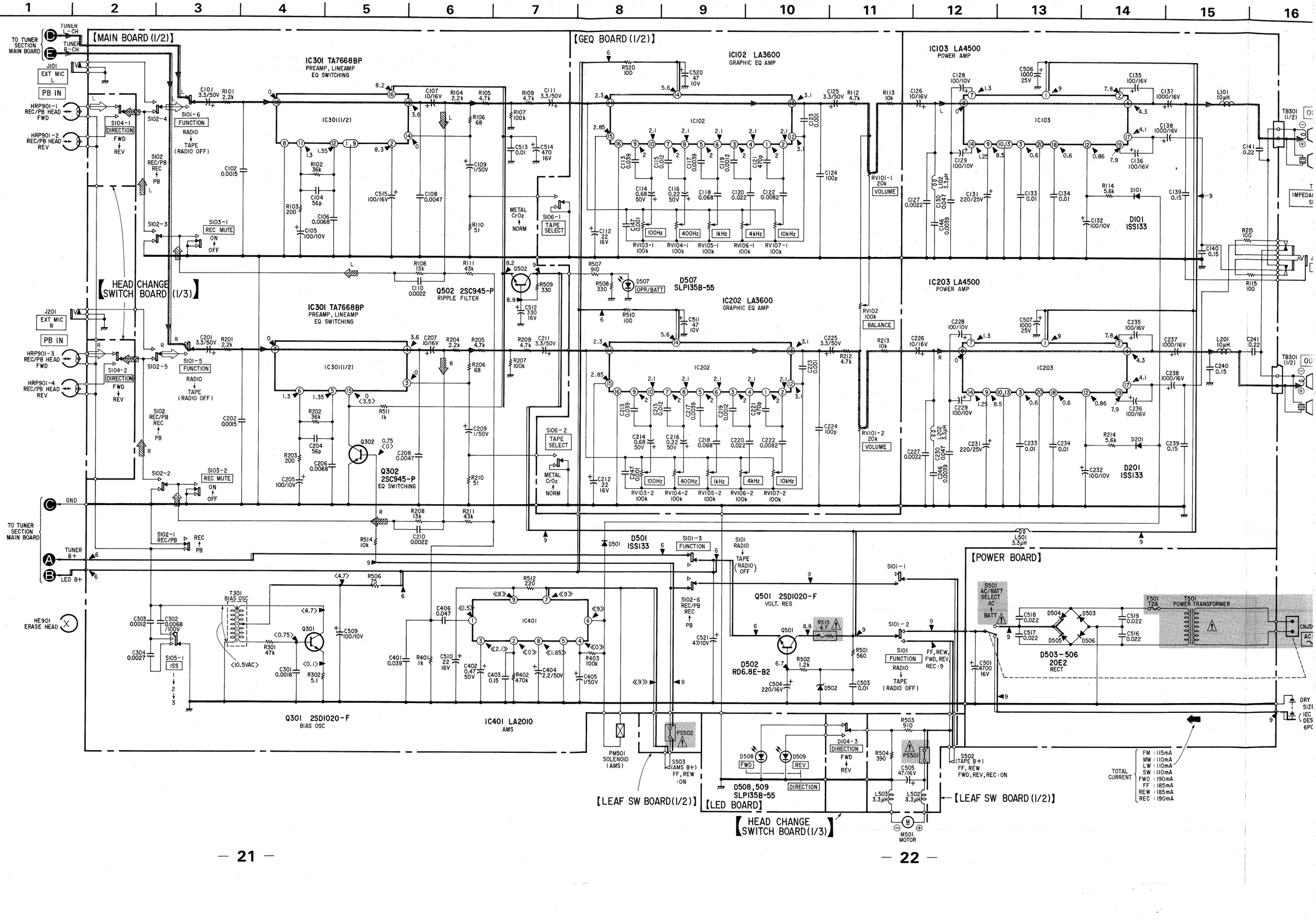
(LA2010)

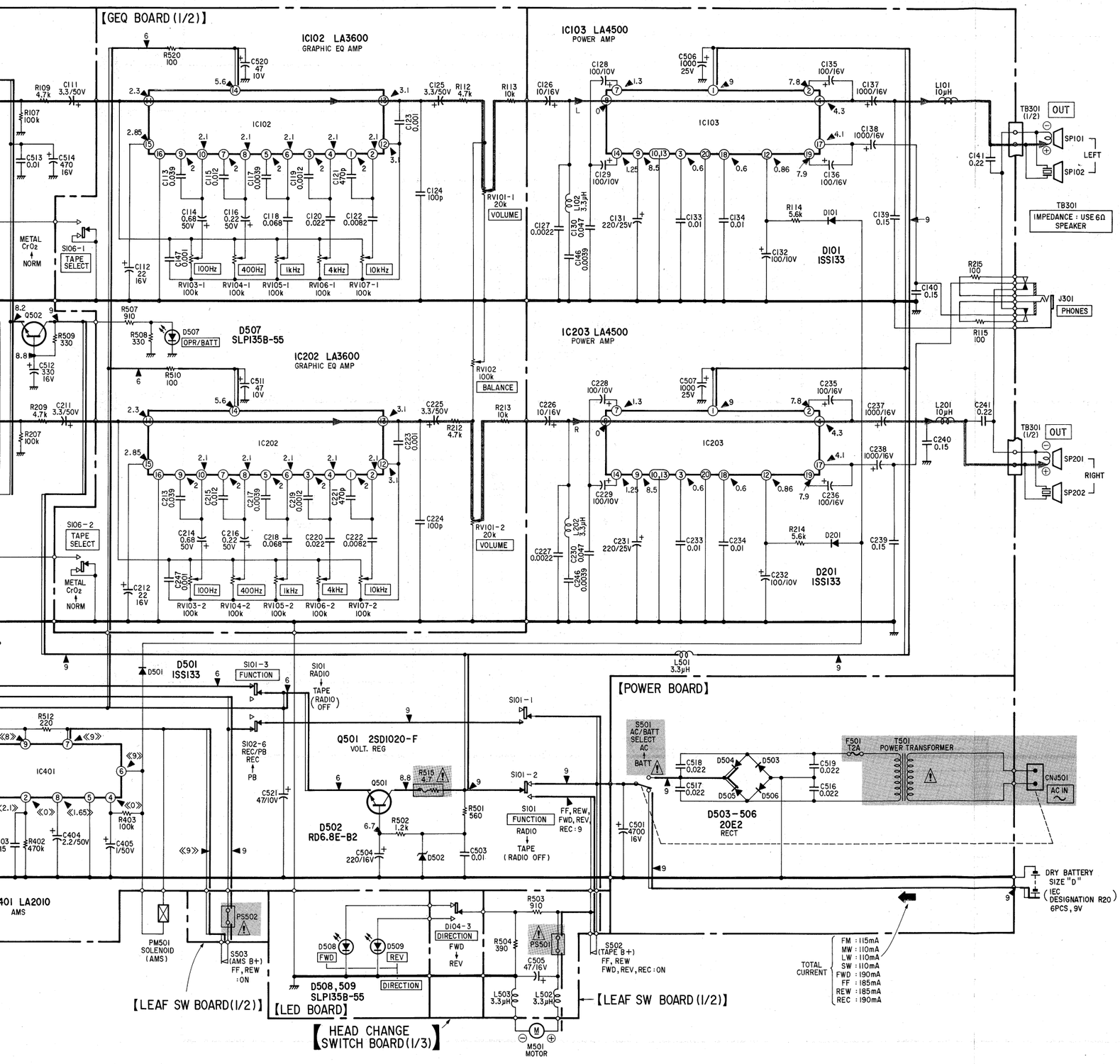


CFS-4000L CFS-4000L


[MAIN BOARD]
[POWER BOARD]
[LEAF SW BOARD]
[HEAD CHANGE SWITCH BOARD]
[SOLENOID BOARD]
[LED BOARD]
[GEQ BOARD]
IMPEDANCE
USE 6Ω SPEAKER
LEFT
RIGHT
TB301 SPEAKER TERMINAL
J101 EXT MIC L
J201 EXT MIC R
ANT901 FM TELESCOPIC ANTENNA
DRY BATTERY SIZE "D" (IEC DESIGNATION R20)
TOTAL CURRENT
FM :115mA
MW :110mA
LW :110mA
SW :110mA
FWD :190mA
FF :185mA
REW :185mA
REC :190mA
SP101 SPEAKER L-CH
SP201 SPEAKER R-CH
SP102
SP202
L7-2 LW
L7-1 MW
L7 MW/LW FERRITE-ROD ANTENNA
J301 PHONES
M501 MOTOR
PM501 SOLENOID (AMS)
PS501
PS502
HRP901 REC/PB HEAD
D501 REC/PB
D502 FWD
D503 REV
D504 FF/REW
D505 AMS
D507 OPR/BATT
D4 FM STEREO
IC101
IC201
IC301
IC103
IC203
IC202
IC1020
RV101 VOLUME
RV102 BALANCE
RV103 100Hz
RV104 400Hz
RV105 1KHz
RV106 4KHz
RV107 10KHz
RV1 FINE TUNING
S101 FUNCTION RADIO TAPE (RADIO OFF)
S102 REC/PB
S103 REC MUTE
S104 DIRECTION FWD↔REV
S105 STEREO MONO
S106 TAPE SELECT NORM METAL CrO2
S501 BIAS OSC
S502 (TAPE END)
S503 (AMS END)
S504 AC/BATT SELECT
BAND FM MW LW SW
DIRECTION
FWD
REV
CNP4
CN501 AC IN
T501 POWER TRANSFORMER
F501
BIAS OSC (10.5V AC)
FF,REW,FWD,REV REC:ON
FF,REW,FWD,REV REC:9
FF,REW,FWD,REV REC:9
FF,REW,FWD,REV REC:ON
FF,REW ON
AMS B# FF,REW:ON
REC MUTE ON OFF
(BLK)(GRY)
(BLK)(GRY)
(BLK)(YEL)
(BLK)(WHT

5-2. SCHEMATIC DIAGRAM — AUDIO Section —





Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ▬▬▶ : FM signal path
  ⇨ : PB Signal path,
  ▨▨▶ : REC signal path

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- ⏦ : fusible resistor.
- Switch

Ref. No.	Switch	Position
S101	FUNCTION	RADIO
S102	REC/PB	PB
S103	REC MUTE	OFF
S104	DIRECTION	FWD
S105-1	ISS	1
S106	TAPE SELECT	NORM
S501	AC/BATT SELECT	BATT
S502	TAPE B+	OFF
S503	AMS B+	"

- ▬▬ : B+ bus.
- AC voltage readings in the bias oscillator with a VTVM.
- Total current is measured with no cassette installed.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
  No mark: FM or TAPE
  < > : REC
  ≪ ≫ : AMS
- Voltage variations may be noted due to normal production tolerances.
- Power voltage is 9 V and fed with regulated dc power supply from battery terminal.

5-3. SCHEMATIC DIAGRAM — TUNER Section —

【MAIN BOARD(1/2)】

Q1 2SC1675-L
FM RF AMP

Q2 2SC1674-L
FM MIX AMP

Q3 2SC1675-K
FM OSC

IC1 LA1260S
FM/AM IF AMP, DET
AM CONV

IC2 TA7343AP
FM MPX

D1 SD113

D2 SD115

D3 ISS133

D4 SLPI35B-55
FM ST

ANT901
FM
TELESCOPIC
ANTENNA

FM/SW IN

BAND

FM BPF

FM IF TRAP

FM IFT

AM T3 IFT

MW IN

LW IN

MW FERRITE ROD ANTENNA

LW FERRITE ROD ANTENNA

SW ANT

FINE TUNING

VCO

MONO

STEREO

STEREO : 5.4
MONO : 4.6

STEREO : 0.7
MONO : 4.6

TUNER B+

LED B+

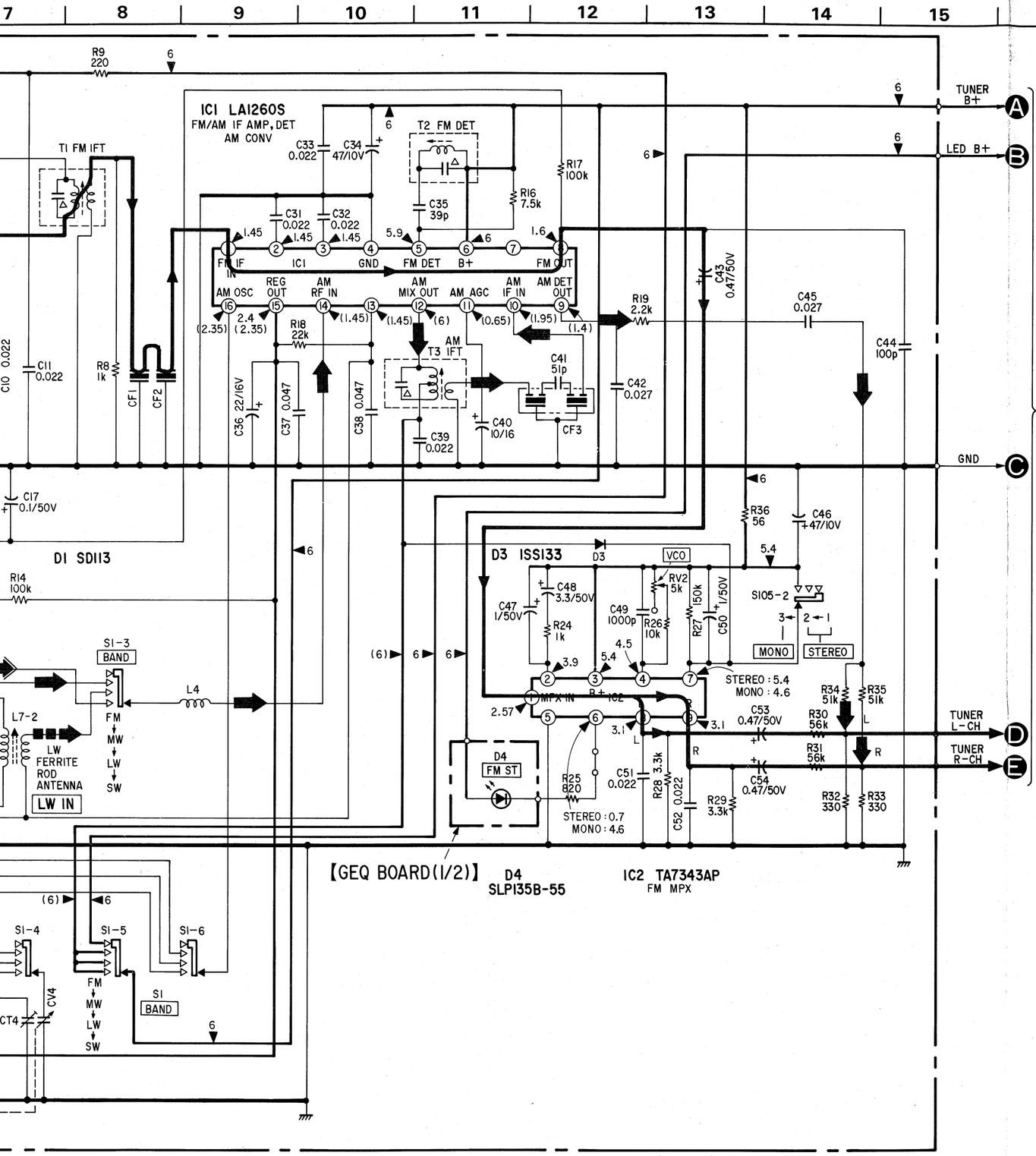
GND

TO AUDIO SECTION MAIN BOARD

TUNER L-CH

TUNER R-CH

【GEQ BOARD(1/2)】



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ➡ : FM signal path ➡ : MW signal path
  ➡ : SW signal path ➡ : LW signal path
- △ : internal component.
- Switch

Ref. No.	Switch	Position
S1	BAND	FM
S105-2	STEREO/MONO	STEREO

- ▬ : B+ bus.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
  No Mark: FM or TAPE
  ( ) : AM
- Voltage variations may be noted due to normal production tolerances.
- Power voltage is 9 V and fed with regulated dc power supply from battery terminal.

SECTION 6
EXPLODED VIEWS

NOTE:

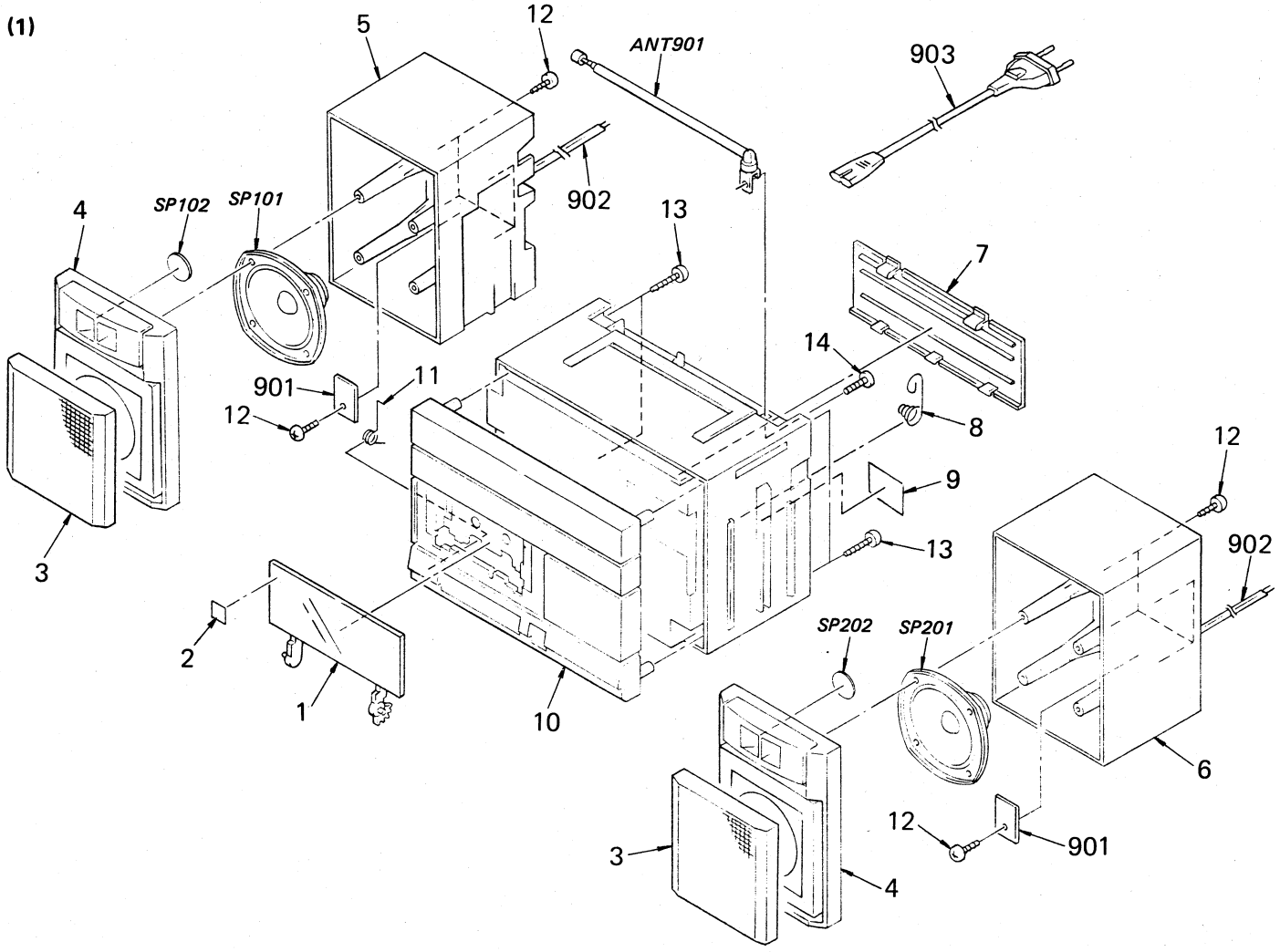
The mechanical parts with no reference number in the exploded views are not supplied.

· Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

· The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

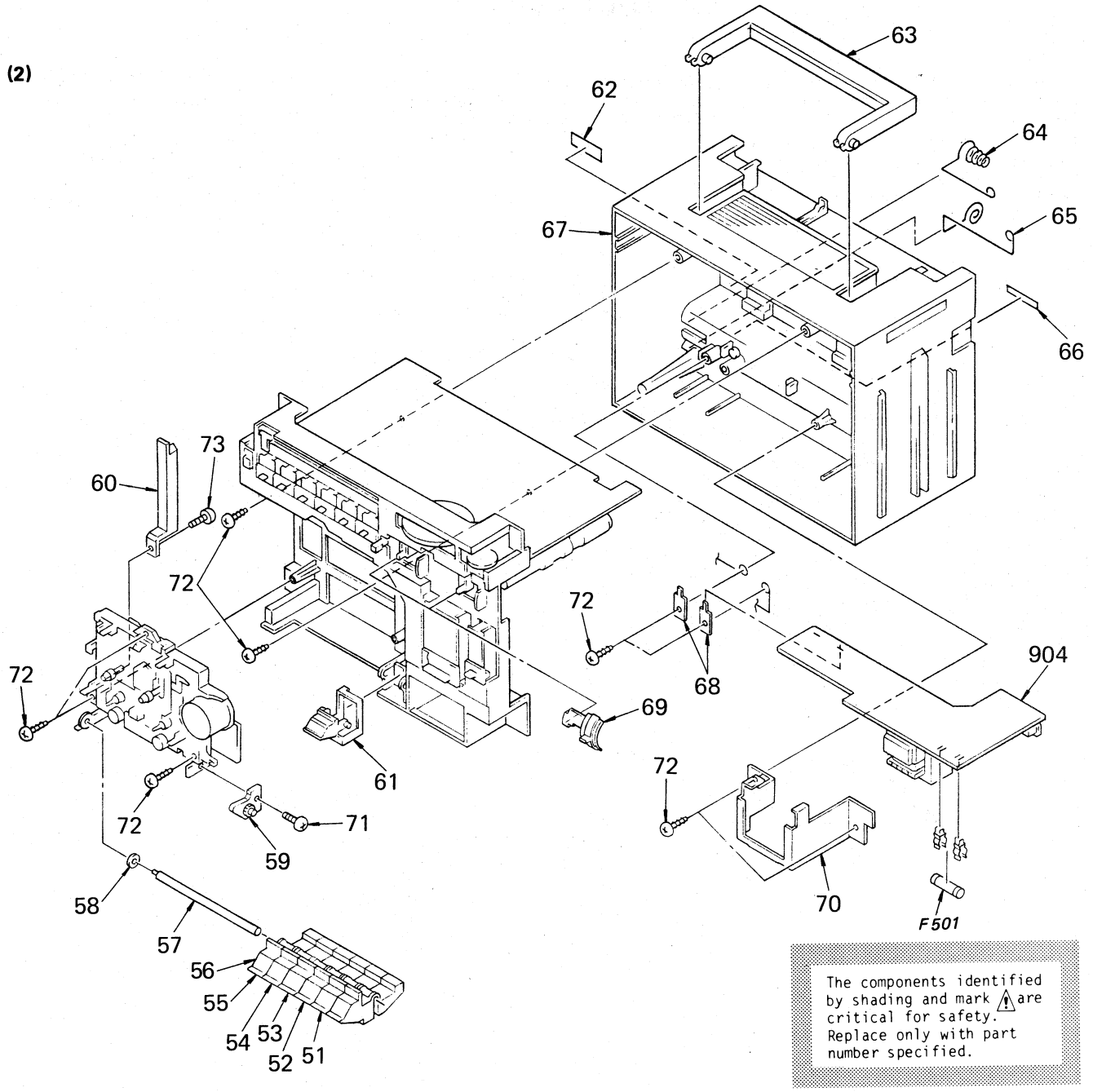
(1)



No.	Part No.	Description	Remarks
1	X-3333-907-1	(BLACK)....CASET LID ASSY	
	X-3333-907-2	(SILVER)...CASET LID ASSY	
2	3-703-707-01	STICKER, SONY SYMBOL (21)	
3	3-333-925-01	GRILLE, SPEAKER	
4	3-333-939-01	(BLACK)....BOX (FRONT), SPK	
	3-333-939-11	(SILVER)...BOX (FRONT), SPK	
5	3-333-941-01	(BLACK)....BOX (REAR) (RIGHT), SPK	
	3-333-941-11	(SILVER)...BOX (REAR) (RIGHT), SPK	
6	3-333-940-01	(BLACK)....BOX (REAR) (LEFT), SPK	
	3-333-940-11	(SILVER)...BOX (REAR) (LEFT), SPK	
7	3-333-902-01	(BLACK)....LID, BATTERY CASE	
	3-333-902-11	(SILVER)...LID, BATTERY CASE	
8	3-333-929-01	SPRING	
9	3-333-935-01	LABEL, MODEL NUMBER (AEP)	

No.	Part No.	Description	Remarks
10	X-3333-909-4	(SILVER)...FRONT CABI ASSY	
	X-3333-909-5	(BLACK)....FRONT CABI ASSY	
11	3-333-932-01	SPRING	
12	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	
13	7-685-651-11	SCREW +BVTP 3X20 TYPE1	
14	7-682-552-04	SCREW +B 3X16	
901	*1-619-075-11	PC BOARD, CORD CLAMP	
902	1-557-463-11	CORD, SPEAKER	
903	⚠1-555-359-00	(UK).....CORD, POWER	
	⚠1-555-360-00	(AEP)....CORD, POWER	
ANT901	1-501-306-11	ANTENNA, TELESCOPIC	
SP101	1-503-635-11	SPEAKER	
SP102	1-529-030-21	BUZZER	
SP201	1-503-635-11	SPEAKER	
SP202	1-529-030-21	BUZZER	

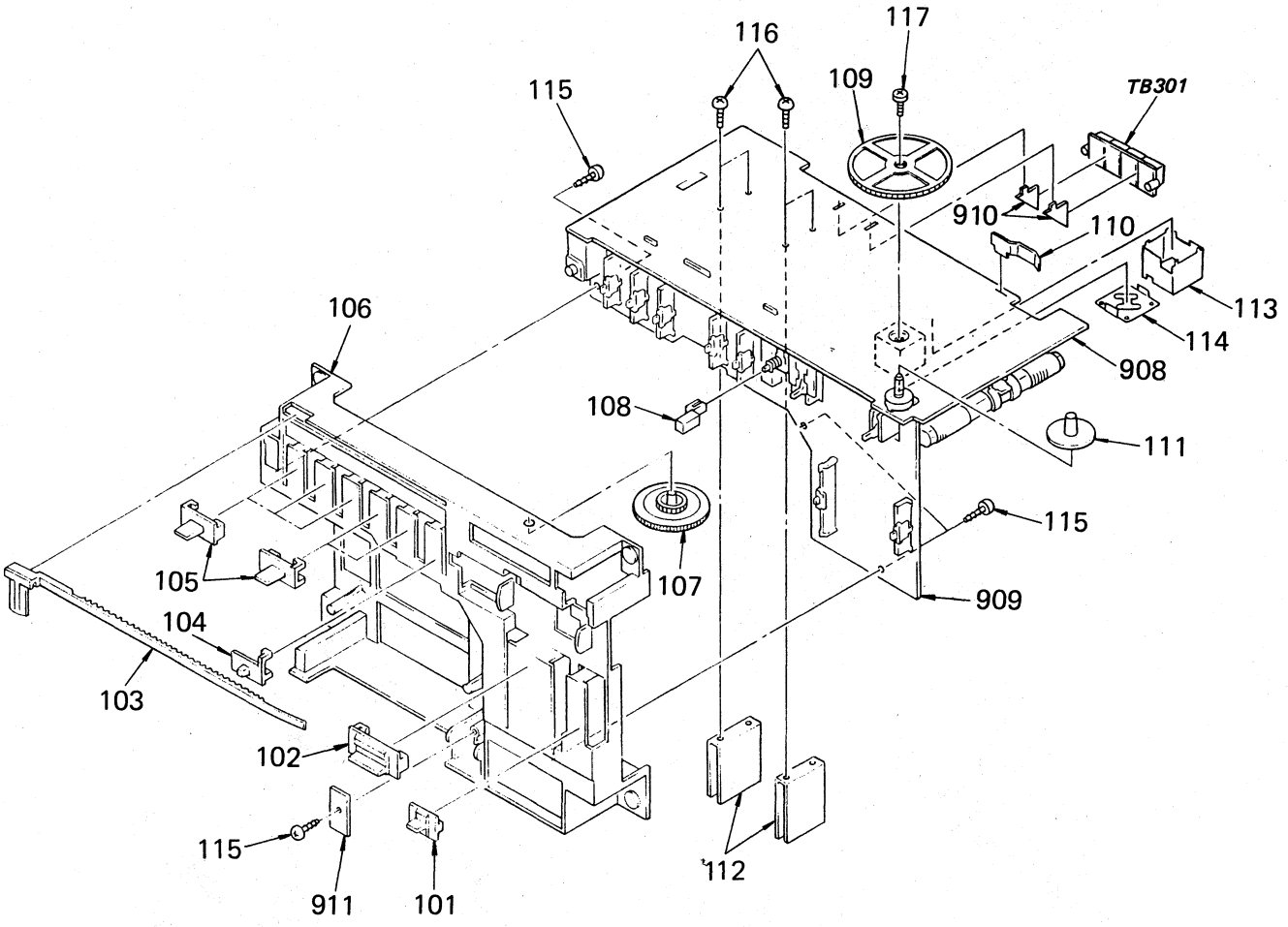
(2)



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remarks
51	3-333-912-01	BUTTON, PAUSE	
52	3-333-911-01	BUTTON, FF	
53	3-333-910-01	BUTTON, REW	
54	3-333-909-01	BUTTON, PLAY	
55	3-333-908-01	BUTTON, REC	
56	3-333-907-01	BUTTON, S/E	
57	3-319-513-01	SHAFT, MD BUTTON	
58	*3-333-922-01	BEARING, MD BUTTON	
59	3-319-512-01	GEAR, SE	
60	*3-333-924-01	ARM, REC	
61	3-333-913-01	BUTTON, DIRECTION	
62	3-703-845-01	(UK)....LABEL (MAIN CAUTION)	
63	X-3333-908-1	(BLACK)....HANDLE ASSY	
	X-3333-908-2	(SILVER)...HANDLE ASSY	
64	3-333-928-01	TERMINAL, MINUS	
65	3-333-927-01	TERMINAL, PLUS	
66	*3-701-999-00	LABEL, SERIAL NUMBER	
67	3-333-938-21	(BLACK)....CABINET, REAR	
	3-333-938-31	(SILVER)...CABINET, REAR	
68	*3-333-931-01	TERMINAL BOARD, POWER	
69	3-333-919-01	KNOB, FUNCTION	
70	*3-333-926-01	BRACKET, TRANSFORMER	
71	7-682-546-04	SCREW +P 3X5	
72	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	
73	7-685-793-04	SCREW +BVTT 2.6X8 (S)	
904	*1-619-070-11	PC BOARD, POWER	
F501⚠	1-532-203-00	FUSE, TIME-LAG, 2A	

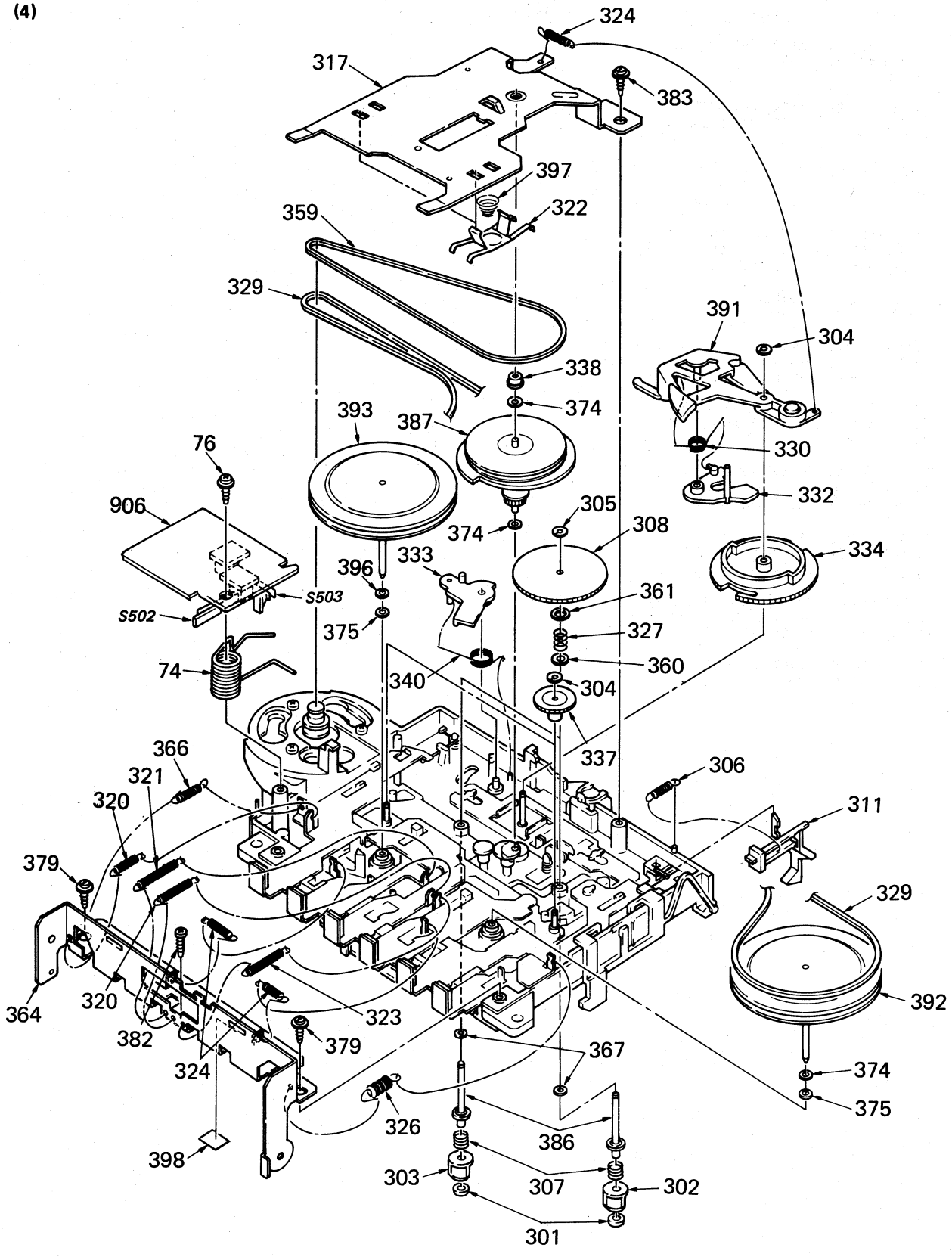
(3)



No.	Part No.	Description	Remarks
101	3-333-918-01	KNOB, BALANCE	
102	3-333-917-01	KNOB, VOL	
103	*3-333-914-01	RACK, DIAL	
104	3-333-920-01	KNOB, TAPE SELECT	
105	3-333-916-01	KNOB, GEQ	
106	*3-333-937-01	CHASSIS	
107	3-333-915-01	KNOB, TUNING	
108	3-322-334-11	KNOB, REC MUTE	
109	*3-333-923-01	GEAR, VC	
110	*3-333-930-01	TERMINAL BOARD, ANTENNA	
111	3-333-921-01	KNOB, FINE TUNING	

No.	Part No.	Description	Remarks
112	*3-333-989-01	HEATSINK	
113	*3-333-988-01	CASE, SHIELD	
114	*3-890-726-00	PLATE (C), SHIELD	
115	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	
116	7-685-754-01	SCREW +PTT 3X12 (S)	
117	7-621-259-45	SCREW +P 2.6X6	
908	*A-3260-408-A	MOUNTED PCB, MAIN	
909	*A-3279-587-A	MOUNTED PCB, GEQ	
910	*1-619-069-11	PC BOARD, SP TERMINAL CLAMP	
911	*1-619-074-11	PC BOARD, LED	
TB30	1-536-705-21	TERMINAL BOARD (SP)	

(4)


324
317
383
397
322
359
329
391
304
338
374
393
387
330
76
906
305
332
374
308
334
333
396
361
S503
S502
375
327
74
360
340
304
337
366
306
321
320
311
379
329
320
323
364
382
379
392
367
324
374
326
375
386
398
303
307
302
301

No.	Part No.	Description	Remarks
74	3-321-533-01	SPRING	
76	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
301	3-307-362-00	CAP, REEL	
302	3-307-363-00	CLAW (N), REEL	
303	3-307-447-00	CLAW (R), REEL	
304	3-307-948-01	WASHER, NYLON	
305	3-322-672-01	WASHER, NYLON	
306	3-313-384-01	SPRING, TENSION	
307	3-321-531-01	SPRING, COMPRESSION	
308	3-322-508-01	GEAR, REEL	
311	3-322-511-01	CLAW, ERASING PROTECTION	
317	*3-322-519-01	RETAINER, THRUST	
320	3-322-522-01	SPRING, TENSION	
321	3-322-523-01	SPRING, TENSION	
322	3-322-524-01	SPRING	
323	3-322-526-01	SPRING, TENSION(POWER TENSION)	
324	3-322-527-01	SPRING, TENSION	
326	3-322-691-01	SPRING, TENSION	
327	3-321-541-01	SPRING, COMPRESSION	
329	3-322-533-01	BELT	
330	3-322-534-01	SPRING	
332	3-322-551-01	LEVER (A), OA	
333	3-322-552-01	LEVER, GEAR LOCK	
334	3-322-553-01	GEAR, CAM	
337	3-322-556-01	GEAR, FR	
338	3-322-566-01	BEARING, PULLEY	
340	3-322-574-01	SPRING	
359	3-434-110-XX	BELT, COUNTER	
360	3-322-659-01	WASHER (A)	
361	3-322-660-01	WASHER (B)	
364	*3-322-702-01	RETAINER (B), LEVER	
366	3-530-260-00	SPRING, TENSION	
367	3-545-715-00	WASHER	
374	3-701-437-11	WASHER	
375	3-701-437-21	WASHER	
379	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
382	7-685-105-14	TPG +P 2X8, TYPE 2, NON-SLIT	
383	7-687-234-11	SCREW (+ PTPWH) (2.6X8)	
386	X-3321-501-1	BUSHING ASSY, REEL TABLE	
387	X-3322-501-1	DETECTION BLOCK ASSY	
391	X-3322-506-1	LEVER (B) ASSY, OA	
392	X-3322-507-1	FLYWHEEL (R) ASSY	
393	X-3322-508-1	FLYWHEEL (N) ASSY	
396	3-701-437-41	WASHER	
397	3-322-676-01	SPRING (S), COMPRESSION	
398	3-831-441-11	CUSHION (B)	
906	*1-619-076-11	PC BOARD, LEAF SW	
S502	1-570-013-11	SWITCH, LEAF (TAPE B+)	
S503	1-570-012-11	SWITCH, LEAF (AMS B+)	

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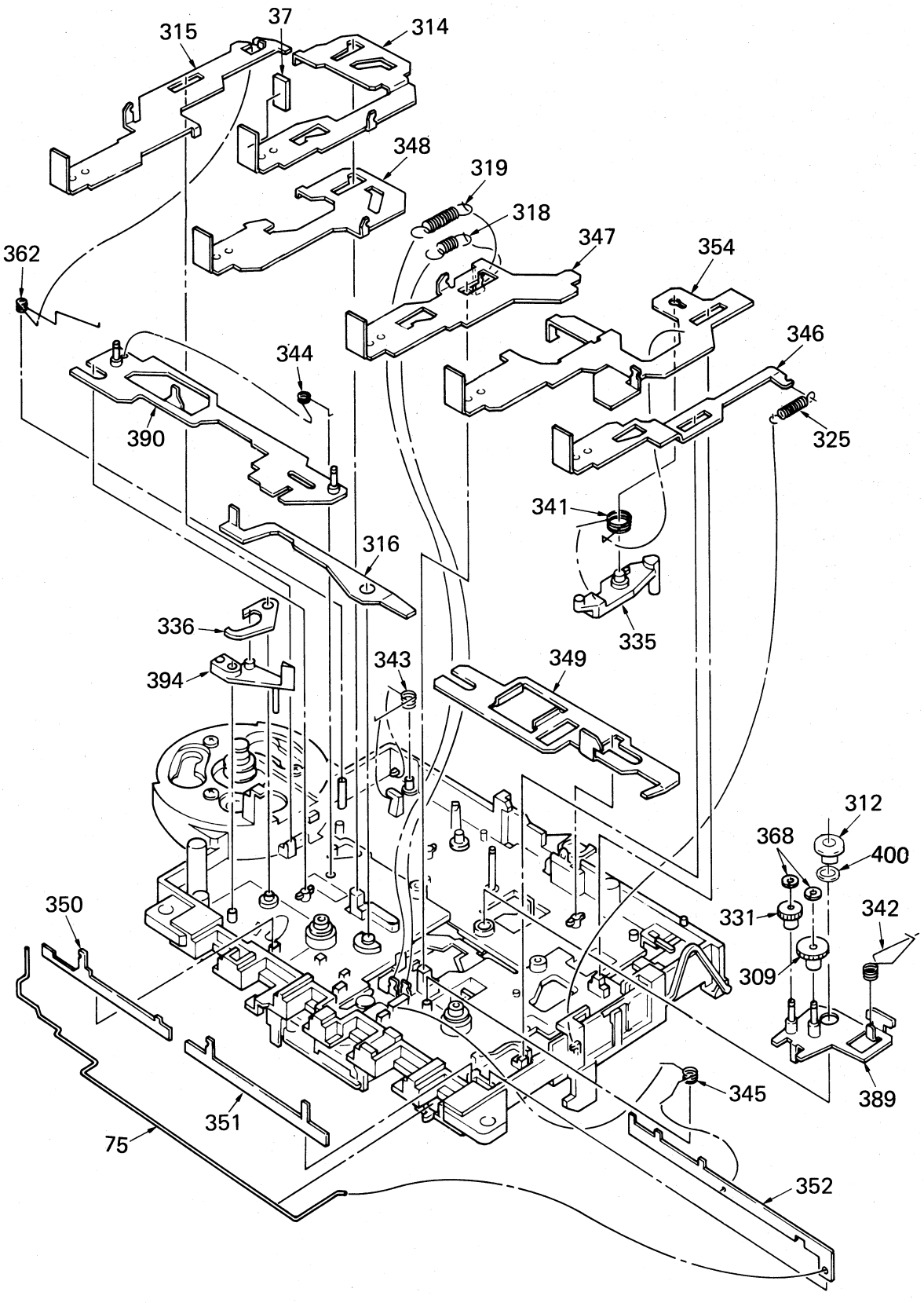
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No.	Part No.	Description	Remarks
75	*3-321-514-11	LEVER, SWITCH, POWER	
309	3-322-509-01	GEAR (A), FWD	
312	3-322-513-01	COLLAR	
314	*3-322-515-21	LEVER, REW BUTTON	
315	*3-322-516-21	LEVER, PAUSE BUTTON	
316	*3-322-517-01	LEVER, AMS	
318	3-322-520-01	SPRING, TENSION	
319	3-322-693-01	SPRING, TENSION	
325	3-322-528-01	SPRING, TENSION	
331	3-322-550-01	GEAR (B), FWD	
335	3-322-554-01	ARM, REC LOCK	
336	3-322-555-01	LEVER (E), S.OFF	
341	3-322-575-01	SPRING	
342	3-322-576-01	SPRING	
343	3-322-577-01	SPRING	
344	3-322-578-01	SPRING	
345	3-322-579-01	SPRING	
346	*3-322-583-21	LEVER, STOP BUTTON	
347	*3-322-584-21	LEVER, PLAY BUTTON	
348	*3-322-585-21	LEVER, FF BUTTON	
349	*3-322-586-01	LEVER, DIRECTION	
350	*3-322-587-01	PLATE (B), LOCK	
351	*3-322-588-01	PLATE (A), LOCK	
352	*3-322-589-01	LEVER, SWITCH	
354	*3-322-591-21	LEVER, REC BUTTON	
362	3-322-667-01	SPRING	
368	3-570-615-00	POLY-WASHER (DIA.1.2)	
389	*X-3322-504-1	ARM ASSY, FWD GEAR	
390	*X-3322-505-1	LEVER ASSY, FR	
394	X-3322-509-1	LEVER (D) ASSY, S.OFF	
400	3-322-689-01	RING	

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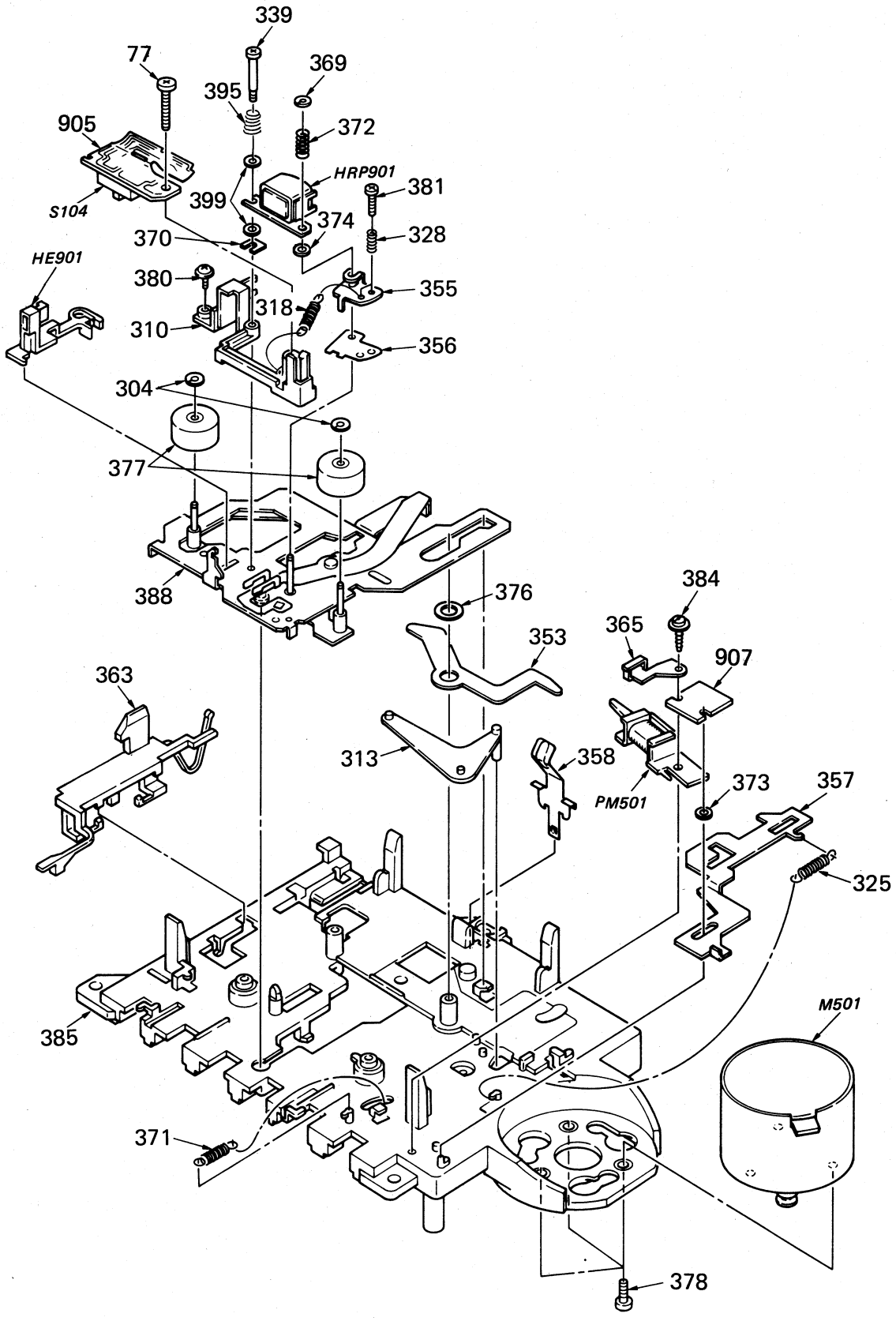
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No.	Part No.	Description	Remarks
77	7-621-772-68	SCREW +B 2X12	
304	3-307-948-01	WASHER, NYLON	
310	3-322-510-01	GUIDE, EBF	
313	3-322-514-01	LINK (A)	
318	3-322-520-01	SPRING, TENSION	
325	3-322-528-01	SPRING, TENSION	
328	3-322-531-01	SPRING, COMPRESSION	
339	3-322-567-01	SCREW, PAN, STEP	
353	*3-322-590-01	LEVER, DIRECTION RELEASE	
355	3-322-592-01	LEVER, AZIMUTH	
356	3-322-593-01	PLATE, AZIMUTH	
357	*3-322-594-01	LEVER, MANUAL BUTTON	
358	3-322-595-01	SPRING	
363	3-322-701-01	LEVER (B), EJECT	
365	*3-322-704-01	GUIDE, WIRING	
369	3-570-615-11	POLY-WASHER (DIA.1.2)	
370	3-573-466-01	SPACER, HEAD	
	3-573-466-11	SPACER, HEAD	
371	3-573-468-00	SPRING, TENSION	
372	3-579-759-00	SPRING, COMPRESSION	
373	3-701-437-01	WASHER	
374	3-701-437-11	WASHER	
376	3-701-443-01	WASHER, 5	
377	3-703-597-41	PINCH ROLLER, STANDARD	
378	7-621-770-87	SCREW +P 2.6X5	
380	7-621-955-35	SCREW (2MMX5), + PWH	
381	7-627-851-27	SCREW, PRECISION +P 1.4X5	
384	7-685-105-14	SCREW (2X8), + PTPWH	
385	A-3102-061-A	CHASSIS ASSY, MECHANICAL	
388	X-3322-503-1	CHASSIS ASSY, HEAD	
395	3-318-106-01	SPRING (H), COMPRESSION	
399	7-688-001-01	W 2, SMALL	
905	1-614-798-11	PC BOARD, HEAD CHANGE SWITCH	
907	1-602-735-00	PC BOARD	
HE901	A-3114-042-A	ARM ASSY, EBF (EBF 258-36)	
HRP901	8-825-537-62	HEAD, REC/PB (PP 238-3604E)	
M501	A-3133-210-A	MOTOR ASSY	
PM501	1-454-355-00	SOLENOID, PLUNGER	
S104	1-570-018-11	SWITCH, SLIDE (DIRECTION)	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*1-619-075-11	PC BOARD, CORD CLAMP			
902	1-557-463-11	CORD, SPEAKER			
903	⚠1-555-359-00	(UK)....CORD, POWER			
	⚠1-555-360-00	(AEP)...CORD, POWER			
904	*1-619-070-11	PC BOARD, POWER			
905	1-614-798-11	PC BOARD, HEAD CHANGE SWITCH			
906	*1-619-076-11	PC BOARD, LEAF SW			
907	1-602-735-00	PC BOARD			
908	*A-3260-408-A	MOUNTED PCB, MAIN			
909	*A-3279-587-A	MOUNTED PCB, GEQ			
910	*1-619-069-11	PC BOARD, SP TERMINAL CLAMP			
911	*1-619-074-11	PC BOARD, LED			
ANT901	1-501-306-11	ANTENNA, TELESCOPIC			
C1	1-102-110-00	CERAMIC	220PF	10%	50V
C3	1-101-004-00	CERAMIC	0.01MF		50V
C4	1-161-055-00	CERAMIC	0.022MF	10%	25V
C5	1-102-960-00	CERAMIC	24PF	5%	50V
C6	1-102-936-00	CERAMIC	3PF	0.25PF	50V
C7	1-102-502-00	CERAMIC	2PF	0.25PF	50V
C8	1-102-114-00	CERAMIC	470PF	10%	50V
C9	1-102-946-00	CERAMIC	9PF	0.5PF	50V
C10	1-101-005-00	CERAMIC	0.022MF		50V
C11	1-101-005-00	CERAMIC	0.022MF		50V
C12	1-161-013-00	CERAMIC	0.01MF	10%	25V
C13	1-102-865-00	CERAMIC	8PF	0.5PF	50V
C14	1-102-643-00	CERAMIC	27PF	5%	50V
C15	1-102-504-00	CERAMIC	4PF	0.25PF	50V
C16	1-161-013-00	CERAMIC	0.01MF	10%	25V
C17	1-123-607-00	ELECT	0.1MF	20%	50V
C19	1-102-937-00	CERAMIC	4PF	0.25PF	50V
C20	1-102-972-00	CERAMIC	91PF	5%	50V
C21	1-102-508-00	CERAMIC	10PF	0.5PF	50V
C22	1-102-280-00	CERAMIC	5PF	0.5PF	50V
C23	1-102-973-00	CERAMIC	100PF	5%	50V
C24	1-103-740-00	POLYSTYRENE	0.0043MF	5%	50V
C25	1-104-067-00	POLYSTYRENE	390PF	5%	50V
C26	1-103-711-00	POLYSTYRENE	270PF	5%	50V
C27	1-102-806-00	CERAMIC	27PF	5%	50V
C28	1-103-711-00	POLYSTYRENE	270PF	5%	50V
C29	1-102-508-00	CERAMIC	10PF	0.5PF	50V
C30	1-101-005-00	CERAMIC	0.022MF		50V
C31	1-101-005-00	CERAMIC	0.022MF		50V
C32	1-101-005-00	CERAMIC	0.022MF		50V
C33	1-101-005-00	CERAMIC	0.022MF		50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C34	1-123-306-00	ELECT	47MF	20%	10V
C35	1-102-965-00	CERAMIC	39PF	5%	50V
C36	1-123-330-00	ELECT	22MF	20%	16V
C37	1-161-059-00	CERAMIC	0.047MF	10%	25V
C38	1-161-059-00	CERAMIC	0.047MF	10%	25V
C39	1-101-005-00	CERAMIC	0.022MF		50V
C40	1-123-356-00	ELECT	10MF	20%	16V
C41	1-101-882-00	CERAMIC	51PF	5%	50V
C42	1-161-056-00	CERAMIC	0.027MF	10%	25V
C43	1-123-379-00	ELECT	0.47MF	20%	50V
C44	1-102-973-00	CERAMIC	100PF	5%	50V
C45	1-161-056-00	CERAMIC	0.027MF	10%	25V
C46	1-123-306-00	ELECT	47MF	20%	10V
C47	1-123-380-00	ELECT	1MF	20%	50V
C48	1-123-382-00	ELECT	3.3MF	20%	50V
C49	1-104-077-00	POLYSTYRENE	0.001MF	5%	50V
C50	1-123-380-00	ELECT	1MF	20%	50V
C51	1-161-055-00	CERAMIC	0.022MF	10%	25V
C52	1-161-055-00	CERAMIC	0.022MF	10%	25V
C53	1-123-379-00	ELECT	0.47MF	20%	50V
C54	1-123-379-00	ELECT	0.47MF	20%	50V
C55	1-102-973-00	CERAMIC	100PF	5%	50V
C56	1-102-973-00	CERAMIC	100PF	5%	50V
C57	1-102-973-00	CERAMIC	100PF	5%	50V
C58	1-102-973-00	CERAMIC	100PF	5%	50V
C101	1-123-382-00	ELECT	3.3MF	20%	50V
C102	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C104	1-101-884-00	CERAMIC	56PF	5%	50V
C105	1-123-307-00	ELECT	100MF	20%	10V
C106	1-102-127-21	CERAMIC	0.0068MF	10%	50V
C107	1-123-356-00	ELECT	10MF	20%	16V
C108	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C109	1-123-380-00	ELECT	1MF	20%	50V
C110	1-161-043-00	CERAMIC	0.0022MF	10%	25V
C111	1-123-382-00	ELECT	3.3MF	20%	50V
C112	1-123-330-00	ELECT	22MF	20%	16V
C113	1-161-058-00	CERAMIC	0.039MF	10%	25V
C114	1-123-902-00	ELECT	0.68MF	20%	50V
C115	1-161-052-00	CERAMIC	0.012MF	10%	25V
C116	1-123-608-00	ELECT	0.22MF	20%	50V
C117	1-161-046-00	CERAMIC	0.0039MF	10%	25V
C118	1-161-023-00	CERAMIC	0.068MF	10%	25V
C119	1-161-040-00	CERAMIC	0.0012MF	10%	25V
C120	1-161-055-00	CERAMIC	0.022MF	10%	25V
C121	1-102-114-00	CERAMIC	470PF	10%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C122	1-161-012-00	CERAMIC	0.0082MF	10%	25V
C123	1-102-074-00	CERAMIC	0.001MF	10%	50V
C124	1-102-106-00	CERAMIC	100PF	10%	50V
C125	1-123-382-00	ELECT	3.3MF	20%	50V
C126	1-123-356-00	ELECT	10MF	20%	16V
C127	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C128	1-123-307-00	ELECT	100MF	20%	10V
C129	1-123-307-00	ELECT	100MF	20%	10V
C130	1-161-059-00	CERAMIC	0.047MF	10%	25V
C131	1-123-334-00	ELECT	220MF	20%	25V
C132	1-123-307-00	ELECT	100MF	20%	10V
C133	1-161-013-00	CERAMIC	0.01MF	10%	25V
C134	1-161-013-00	CERAMIC	0.01MF	10%	25V
C135	1-123-333-00	ELECT	100MF	20%	16V
C136	1-123-333-00	ELECT	100MF	20%	16V
C137	1-123-324-00	ELECT	1000MF	20%	16V
C138	1-123-324-00	ELECT	1000MF	20%	16V
C139	1-130-497-00	MYLAR	0.15MF	5%	50V
C140	1-130-497-00	MYLAR	0.15MF	5%	50V
C141	1-136-169-00	FILM	0.22MF	5%	50V
C146	1-161-046-00	CERAMIC	0.0039MF	10%	25V
C147	1-102-074-00	CERAMIC	0.001MF	10%	50V
C201	1-123-382-00	ELECT	3.3MF	20%	50V
C202	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C204	1-101-884-00	CERAMIC	56PF	5%	50V
C205	1-123-307-00	ELECT	100MF	20%	10V
C206	1-102-127-21	CERAMIC	0.0068MF	10%	50V
C207	1-123-356-00	ELECT	10MF	20%	16V
C208	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C209	1-123-380-00	ELECT	1MF	20%	50V
C210	1-161-043-00	CERAMIC	0.0022MF	10%	25V
C211	1-123-382-00	ELECT	3.3MF	20%	50V
C212	1-123-330-00	ELECT	22MF	20%	16V
C213	1-161-058-00	CERAMIC	0.039MF	10%	25V
C214	1-123-902-00	ELECT	0.68MF	20%	50V
C215	1-161-052-00	CERAMIC	0.012MF	10%	25V
C216	1-123-608-00	ELECT	0.22MF	20%	50V
C217	1-161-046-00	CERAMIC	0.0039MF	10%	25V
C218	1-161-023-00	CERAMIC	0.068MF	10%	25V
C219	1-161-040-00	CERAMIC	0.0012MF	10%	25V
C220	1-161-055-00	CERAMIC	0.022MF	10%	25V
C221	1-102-114-00	CERAMIC	470PF	10%	50V
C222	1-161-012-00	CERAMIC	0.0082MF	10%	25V
C223	1-102-074-00	CERAMIC	0.001MF	10%	50V
C224	1-102-106-00	CERAMIC	100PF	10%	50V
C225	1-123-382-00	ELECT	3.3MF	20%	50V
C226	1-123-356-00	ELECT	10MF	20%	16V
C227	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C228	1-123-307-00	ELECT	100MF	20%	10V
C229	1-123-307-00	ELECT	100MF	20%	10V
C230	1-161-059-00	CERAMIC	0.047MF	10%	25V
C231	1-123-334-00	ELECT	220MF	20%	25V
C232	1-123-307-00	ELECT	100MF	20%	10V
C233	1-161-013-00	CERAMIC	0.01MF	10%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C234	1-161-013-00	CERAMIC	0.01MF	10%	25V
C235	1-123-333-00	ELECT	100MF	20%	16V
C236	1-123-333-00	ELECT	100MF	20%	16V
C237	1-123-324-00	ELECT	1000MF	20%	16V
C238	1-123-324-00	ELECT	1000MF	20%	16V
C239	1-130-497-00	MYLAR	0.15MF	5%	50V
C240	1-130-497-00	MYLAR	0.15MF	5%	50V
C241	1-136-169-00	FILM	0.22MF	5%	50V
C246	1-161-046-00	CERAMIC	0.0039MF	10%	25V
C247	1-102-074-00	CERAMIC	0.001MF	10%	50V
C301	1-130-474-00	MYLAR	0.0018MF	5%	50V
C302	1-108-375-12	MYLAR	0.0068MF	5%	100V
C303	1-161-040-00	CERAMIC	0.0012MF	10%	25V
C304	1-161-044-00	CERAMIC	0.0027MF	10%	25V
C401	1-161-058-00	CERAMIC	0.039MF	10%	25V
C402	1-123-379-00	ELECT	0.47MF	20%	50V
C403	1-136-167-00	FILM	0.15MF	5%	50V
C404	1-123-381-00	ELECT	2.2MF	20%	50V
C405	1-123-380-00	ELECT	1MF	20%	50V
C406	1-130-491-00	MYLAR	0.047MF	5%	50V
C501	1-123-327-00	ELECT	4700MF	20%	16V
C503	1-161-013-00	CERAMIC	0.01MF	10%	25V
C504	1-123-321-00	ELECT	220MF	20%	16V
C505	1-123-332-00	ELECT	47MF	20%	16V
C506	1-123-349-00	ELECT	1000MF	20%	25V
C507	1-123-349-00	ELECT	1000MF	20%	25V
C509	1-123-307-00	ELECT	100MF	20%	10V
C510	1-123-330-00	ELECT	22MF	20%	16V
C511	1-123-306-00	ELECT	47MF	20%	10V
C512	1-123-322-00	ELECT	330MF	20%	16V
C513	1-161-013-00	CERAMIC	0.01MF	10%	25V
C514	1-123-323-00	ELECT	470MF	20%	16V
C515	1-123-333-00	ELECT	100MF	20%	16V
C516	1-101-005-00	CERAMIC	0.022MF		50V
C517	1-101-005-00	CERAMIC	0.022MF		50V
C518	1-101-005-00	CERAMIC	0.022MF		50V
C519	1-101-005-00	CERAMIC	0.022MF		50V
C520	1-123-306-00	ELECT	47MF	20%	10V
C521	1-123-306-00	ELECT	47MF	20%	10V

CF1	1-527-808-00	FILTER, CERAMIC
CF2	1-527-808-00	FILTER, CERAMIC
CF3	1-527-865-00	FILTER, CERAMIC
CNJ501⚠	1-526-822-11	(AEP)....INLET, AC
CNJ501⚠	1-526-838-11	(UK).....INLET, AC 2P
CNP1	*1-564-778-11	PLUG, CONNECTOR (2.5MM) 4P
CNP2	*1-564-779-11	PLUG, CONNECTOR (2.5MM) 6P
CNP3	*1-564-777-11	PLUG, CONNECTOR (2.5MM) 2P
CNP4	*1-506-805-11	CONNECTOR, (L) TYPE
CP1	1-231-720-00	FILTER, BANDPASS
CT1-4 CV1-4	1-151-387-00	CAP, TUNING, POLYETHYLENE
CT5	1-141-290-11	CAP, VAR FILM TRIMMER
CT6	1-141-245-00	TRIMMER, CERAMIC
CT7	1-141-290-11	CAP, VAR FILM TRIMMER
CT8	1-141-245-00	TRIMMER, CERAMIC

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
D1	8-719-768-71	DIODE 1S2687S-1
D2	8-719-713-93	DIODE 1S2139C
D3	8-719-901-33	DIODE 1SS133
D4	8-719-812-41	DIODE TLR124
D101	8-719-901-33	DIODE 1SS133
D201	8-719-901-33	DIODE 1SS133
D501	8-719-901-33	DIODE 1SS133
D502	8-719-100-41	DIODE RD6.8EB2
D503	8-719-200-62	DIODE 20E2H
D504	8-719-200-62	DIODE 20E2H
D505	8-719-200-62	DIODE 20E2H
D506	8-719-200-62	DIODE 20E2H
D507	8-719-812-41	DIODE TLR124
D508	8-719-812-41	DIODE TLR124
D509	8-719-812-41	DIODE TLR124
F501	⚠1-532-203-00	FUSE, TIME-LAG, 2A
HE901	A-3114-042-A	ARM ASSY, EBF (EBF258-36)
HRP901	8-825-537-62	HEAD, REC/PB (PP238-3604E)
IC1	8-759-801-24	IC LA1260S
IC2	8-759-203-87	IC TA7343AP
IC102	8-759-801-23	IC LA3600
IC103	8-759-802-47	IC LA4500
IC202	8-759-801-23	IC LA3600
IC203	8-759-802-47	IC LA4500
IC301	8-759-205-91	IC TA7668BP
IC401	8-759-800-71	IC LA2010
J101	1-507-678-21	JACK (EXT MIC L)
J201	1-507-678-21	JACK (EXT MIC R)
J301	1-563-342-11	JACK (PHONES)
L1	1-426-180-11	COIL, FM RF
L2	*1-409-293-00	COIL, AIR CORE
L3	*1-425-792-00	COIL,HIGH FREQ TRANSFORMER(FM)
L4	*1-409-293-00	COIL, AIR CORE
L5	1-410-313-31	MICRO INDUCTOR 0.33UH
L6	1-402-169-11	COIL, ANTENNA (SW)
L7	1-402-107-11	ANTENNA, FERRITE-ROD (LW/MW)
L8	1-406-152-11	COIL, OSCILLATION (SW)
L9	1-406-059-00	COIL, OSC
L10	1-406-151-11	COIL, OSCILLATION (LW)
L101	1-459-567-11	COIL (WITH CORE)
L102	1-409-389-11	COIL, TRAP
L201	1-459-567-11	COIL (WITH CORE)
L202	1-409-389-11	COIL, TRAP
L501	1-408-177-00	MICRO INDUCTOR 3.3UH
L502	1-408-111-00	MICRO INDUCTOR 3.3UH
L503	1-408-111-00	MICRO INDUCTOR 3.3UH
M501	A-3133-210-A	MOTOR ASSY
PM501	1-454-355-00	SOLENOID, PLUNGER
PS501	⚠1-532-679-00	LINK, IC
PS502	⚠1-532-679-00	LINK, IC

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q1	8-729-672-42	TRANSISTOR 2SC2724-C			
Q2	8-729-178-63	TRANSISTOR 2SC2786-K			
Q3	8-729-672-43	TRANSISTOR 2SC2724-D			
Q301	8-729-102-04	TRANSISTOR 2SD1020-F			
Q302	8-729-194-57	TRANSISTOR 2SC945-P			
Q501	8-729-102-04	TRANSISTOR 2SD1020-F			
Q502	8-729-194-57	TRANSISTOR 2SC945-P			
R1	1-249-414-11	CARBON	560	5%	1/6W
R2	1-247-783-00	CARBON	10	5%	1/6W
R3	1-247-890-00	CARBON	300K	5%	1/6W
R4	1-249-417-11	CARBON	1K	5%	1/6W
R5	1-247-787-00	CARBON	15	5%	1/6W
R6	1-247-889-00	CARBON	270K	5%	1/6W
R7	1-249-417-11	CARBON	1K	5%	1/6W
R8	1-249-417-11	CARBON	1K	5%	1/6W
R9	1-247-815-00	CARBON	220	5%	1/6W
R10	1-249-421-11	CARBON	2.2K	5%	1/6W
R11	1-247-889-00	CARBON	270K	5%	1/6W
R12	1-247-804-00	CARBON	75	5%	1/6W
R13	1-249-441-11	CARBON	100K	5%	1/6W
R14	1-249-441-11	CARBON	100K	5%	1/6W
R15	1-247-888-00	CARBON	240K	5%	1/6W
R16	1-247-852-00	CARBON	7.5K	5%	1/6W
R17	1-249-441-11	CARBON	100K	5%	1/6W
R18	1-249-433-11	CARBON	22K	5%	1/6W
R19	1-249-421-11	CARBON	2.2K	5%	1/6W
R21	1-249-441-11	CARBON	100K	5%	1/6W
R22	1-249-417-11	CARBON	1K	5%	1/6W
R23	1-249-417-11	CARBON	1K	5%	1/6W
R24	1-249-417-11	CARBON	1K	5%	1/6W
R25	1-247-829-00	CARBON	820	5%	1/6W
R26	1-249-429-11	CARBON	10K	5%	1/6W
R27	1-247-883-00	CARBON	150K	5%	1/6W
R28	1-247-843-00	CARBON	3.3K	5%	1/6W
R29	1-247-843-00	CARBON	3.3K	5%	1/6W
R30	1-247-873-00	CARBON	56K	5%	1/6W
R31	1-247-873-00	CARBON	56K	5%	1/6W
R32	1-247-819-00	CARBON	330	5%	1/6W
R33	1-247-819-00	CARBON	330	5%	1/6W
R34	1-247-872-00	CARBON	51K	5%	1/6W
R35	1-247-872-00	CARBON	51K	5%	1/6W
R36	1-247-801-00	CARBON	56	5%	1/6W
R101	1-249-421-11	CARBON	2.2K	5%	1/6W
R102	1-247-868-00	CARBON	36K	5%	1/6W
R103	1-247-814-00	CARBON	200	5%	1/6W
R104	1-249-421-11	CARBON	2.2K	5%	1/6W
R105	1-249-425-11	CARBON	4.7K	5%	1/6W
R106	1-247-803-00	CARBON	68	5%	1/6W
R107	1-247-879-00	CARBON	100K	5%	1/6W
R108	1-247-858-00	CARBON	13K	5%	1/6W
R109	1-249-425-11	CARBON	4.7K	5%	1/6W
R110	1-247-800-00	CARBON	51	5%	1/6W
R111	1-247-870-00	CARBON	43K	5%	1/6W
R112	1-249-425-11	CARBON	4.7K	5%	1/6W
R113	1-249-429-11	CARBON	10K	5%	1/6W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R114	1-247-849-00	CARBON	5.6K	5%	1/6W
R115	1-249-405-11	CARBON	100	5%	1/6W
R201	1-249-421-11	CARBON	2.2K	5%	1/6W
R202	1-247-868-00	CARBON	36K	5%	1/6W
R203	1-247-814-00	CARBON	200	5%	1/6W
R204	1-249-421-11	CARBON	2.2K	5%	1/6W
R205	1-249-425-11	CARBON	4.7K	5%	1/6W
R206	1-247-803-00	CARBON	68	5%	1/6W
R207	1-247-879-00	CARBON	100K	5%	1/6W
R208	1-247-858-00	CARBON	13K	5%	1/6W
R209	1-249-425-11	CARBON	4.7K	5%	1/6W
R210	1-247-800-00	CARBON	51	5%	1/6W
R211	1-247-870-00	CARBON	43K	5%	1/6W
R212	1-249-425-11	CARBON	4.7K	5%	1/6W
R213	1-249-429-11	CARBON	10K	5%	1/6W
R214	1-247-849-00	CARBON	5.6K	5%	1/6W
R215	1-249-405-11	CARBON	100	5%	1/6W
R301	1-249-437-11	CARBON	47K	5%	1/6W
R302	1-247-776-00	CARBON	5.1	5%	1/6W
R401	1-249-417-11	CARBON	1K	5%	1/6W
R402	1-247-895-00	CARBON	470K	5%	1/6W
R403	1-249-441-11	CARBON	100K	5%	1/6W
R501	1-249-414-11	CARBON	560	5%	1/6W
R502	1-247-833-00	CARBON	1.2K	5%	1/6W
R503	1-247-830-00	CARBON	910	5%	1/6W
R504	1-247-821-00	CARBON	390	5%	1/6W
R506	1-247-804-00	CARBON	75	5%	1/6W
R507	1-247-830-00	CARBON	910	5%	1/6W
R508	1-247-819-00	CARBON	330	5%	1/6W
R509	1-247-819-00	CARBON	330	5%	1/6W
R510	1-249-405-11	CARBON	100	5%	1/6W
R511	1-249-417-11	CARBON	1K	5%	1/6W
R512	1-247-815-00	CARBON	220	5%	1/6W
R514	1-249-429-11	CARBON	10K	5%	1/6W
R515	⚠1-217-383-00	FUSIBLE	4.7	5%	1/4W F
R520	1-249-405-11	CARBON	100	5%	1/6W
RV1	1-230-477-11	RES, VAR, CARBON 100K			
RV2	1-228-723-00	RES, ADJ, CARBON 5K			
RV101	1-237-277-11	RES, VAR, SLIDE 20K/20K (VOLUME)			
RV102	1-237-276-11	RES, VAR, SLIDE 100K (BALANCE)			
RV103	1-237-275-11	RES, VAR, SLIDE 100K/100K (G.EQ 100Hz)			
RV104	1-237-275-11	RES, VAR, SLIDE 100K/100K (G.EQ 400Hz)			
RV105	1-237-275-11	RES, VAR, SLIDE 100K/100K (G.EQ 1kHz)			
RV106	1-237-275-11	RES, VAR, SLIDE 100K/100K (G.EQ 4kHz)			
RV107	1-237-275-11	RES, VAR, SLIDE 100K/100K (G.EQ 10kHz)			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S1	1-554-885-11	SWITCH, LEVER SLIDE (BAND)
S101	1-570-677-11	SWITCH, LEVER (FUNCTION)
S102	1-570-672-11	SWITCH, LEVER SLIDE (REC/PB)
S103	1-570-452-11	SWITCH, PUSH (1 KEY)(REC MUTE)
S104	1-570-018-11	SWITCH, SLIDE (DIRECTION)
S105	1-554-061-00	SWITCH, SLIDE (ISS)
S106	1-570-673-11	SWITCH, SLIDE (TAPE SELECT)
S501	⚠1-526-822-11	INLET, AC (AC/BATT SELECT)
S502	1-570-013-11	SWITCH, LEAF (TAPE B+)
S503	1-570-012-11	SWITCH, LEAF (AMS B+)
SP101	1-503-635-11	SPEAKER
SP102	1-529-030-21	BUZZER
SP201	1-503-635-11	SPEAKER
SP202	1-529-030-21	BUZZER
T1	1-403-872-00	I.F.T CONVERTER FM (SMALL TYPE)
T2	1-404-249-00	COIL, FM DETECTOR
T3	1-404-355-00	TRANSFORMER, IF
T301	1-433-268-00	TRANSFORMER, BIAS OSCILLATOR
T501	⚠1-448-570-11	(AEP)...TRANSFORMER, POWER
T501	⚠1-448-572-11	(UK)...TRANSFORMER, POWER
TB30	1-536-705-21	TERMINAL BOARD (SP)

ACCESSORY & PACKING MATERIAL

Part No.	Description
3-701-632-00	BAG, POLYETHYLENE
*3-701-999-00	LABEL, SERIAL NUMBER
3-703-707-01	STICKER, SONY SYMBOL (21)
3-703-895-01	LABEL, COLOR
3-703-906-01	LABEL, COLOR
*3-764-430-01	INSTRUCTION, DBP CAUTION
3-765-263-11	MANUAL, INSTRUCTION
3-881-644-00	PEOTECTION BAG
1-555-234-00	CORD, POWER
1-555-360-00	CORD, POWER

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